

**Nucleic Acids, Nucleotides, and Nucleosides** D13+

**Antisense Elements** D13-10+ #

**Antisense DNA** D13-10-10+ #

**Antisense Oligodeoxyribonucleotides** D13-10-10-10+ #

**Mipomersen** D13-10-10-10-10 #

**Trecovirsen** D13-10-10-10-20 #

\* **Viltolarsen** D13-10-10-10-30 #

**Antisense Oligonucleotides** D13-10-20+ #

**Antisense Oligodeoxyribonucleotides** D13-10-20-10+ #

**Mipomersen** D13-10-20-10-10 #

**Trecovirsen** D13-10-20-10-20 #

\* **Viltolarsen** D13-10-20-10-30 #

**Antisense Oligoribonucleotides** D13-10-20-20+ #

**Nusinersen** D13-10-20-20-10 #

**Eteplirsen** D13-10-20-30 #

**Fomivirsen** D13-10-20-40 #

**Antisense RNA** D13-10-30+ #

**Antisense Oligoribonucleotides** D13-10-30-10+ #

**Nusinersen** D13-10-30-10-10 #

**MicroRNAs** D13-10-30-20+ #

**循環MicroRNA** D13-10-30-20-10 #

**siRNA** D13-10-30-30+ #

**Patisiran** D13-10-30-30-10 #

**Nucleosides** D13-20+ #

**Arabinonucleosides** D13-20-10+ #

**Arabinofuranosyluracil** D13-20-10-10+ #

**Fialuridine** D13-20-10-10-10 #

**Netivudine** D13-20-10-10-20 #

**Sorivudine** D13-20-10-10-30 #

**Clofarabine** D13-20-10-20 #

**Cytarabine** D13-20-10-30+ #

**Ancitabine** D13-20-10-30-10 #

**Enocitabine** D13-20-10-30-20 #

**Fiacitabine** D13-20-10-30-30 #

**Nelarabine** D13-20-10-40 #

**Sapacitabine** D13-20-10-50 #

**Vidarabine** D13-20-10-60+ #

**Fludarabine** D13-20-10-60-10 #

**Deoxyribonucleosides** D13-20-20+ #

**Deoxyadenosines** D13-20-20-10+ #

**Cladribine** D13-20-20-10-10 #

**Dideoxyadenosine** D13-20-20-10-20 #

**Puromycin Aminonucleoside** D13-20-20-10-30 #

**Deoxycytidine** D13-20-20-20+ #

**Apricitabine** D13-20-20-20-10 #

**Bromodeoxycytidine** D13-20-20-20-20+ #

**Ibacitabine** D13-20-20-20-20-10 #

**Capecitabine** D13-20-20-20-30 #

**Emtricitabine** D13-20-20-20-40+ #

**Elvitegravir-Cobicistat-Emtricitabine-Tenofovir** D13-20-20-20-40-10 #

**Emtricitabine-Tenofovir** D13-20-20-20-40-20 #

**Galocitabine** D13-20-20-20-50 #

**Gemcitabine** D13-20-20-20-60 #

**Zalcitabine** D13-20-20-20-70+ #

**Elvucitabine** D13-20-20-20-70-10 #

**Lamivudine** D13-20-20-20-70-20 #

**Deoxyguanosine** D13-20-20-30+ #

**8-Hydroxy-2'-deoxyguanosine** D13-20-20-30-10 #

**Deoxyuridine** D13-20-20-40+ #

- Broxuridine D13-20-20-40-10+ #
- Brivudine D13-20-20-40-10-10 #
- Floxuridine D13-20-20-40-20+ #
- Doxifluridine D13-20-20-40-20-10 #
- Idoxuridine D13-20-20-40-30 #
- Dideoxynucleosides D13-20-20-50+ #
- Abacavir D13-20-20-50-10 #
- Didanosine D13-20-20-50-20 #
- Dideoxyadenosine D13-20-20-50-30 #
- Stavudine D13-20-20-50-40 #
- Zalcitabine D13-20-20-50-50+ #
- Elvucitabine D13-20-20-50-50-10 #
- Lamivudine D13-20-20-50-50-20 #
- Zidovudine D13-20-20-50-60 #
- Pentostatin D13-20-20-60 #
- Thymidine D13-20-20-70+ #
- Stavudine D13-20-20-70-10 #
- Telbivudine D13-20-20-70-20 #
- Trifluridine D13-20-20-70-30 #
- Zidovudine D13-20-20-70-40 #
- Purine Nucleosides D13-20-30+ #
- Adenosine D13-20-30-10+ #
- Adenosine-5'-(N-ethylcarboxamide) D13-20-30-10-10 #
- S-Adenosylhomocysteine D13-20-30-10-20 #
- S-Adenosylmethionine D13-20-30-10-30 #
- 2-Chloroadenosine D13-20-30-10-40+ #
- Cladribine D13-20-30-10-40-10 #
- Deoxyadenosines D13-20-30-10-50+ #
- Cladribine D13-20-30-10-50-10 #
- Dideoxyadenosine D13-20-30-10-50-20 #
- Puromycin Aminonucleoside D13-20-30-10-50-30 #
- Isopentenyladenosine D13-20-30-10-60 #
- Phenylisopropyladenosine D13-20-30-10-70 #
- Puromycin D13-20-30-10-80+ #
- Puromycin Aminonucleoside D13-20-30-10-80-10 #
- Ticagrelor D13-20-30-10-90 #
- Vidarabine D13-20-30-10-100+ #
- Fludarabine D13-20-30-10-100-10 #
- Amdoxovir D13-20-30-20 #
- Forodesine D13-20-30-30 #
- Guanosine D13-20-30-40+ #
- Deoxyguanosine D13-20-30-40-10+ #
- 8-Hydroxy-2'-deoxyguanosine D13-20-30-40-10-10 #
- Isatoribine D13-20-30-40-20 #
- Nucleoside Q D13-20-30-40-30 #
- Inosine D13-20-30-50+ #
- Didanosine D13-20-30-50-10 #
- Inosine Pranobex D13-20-30-50-20 #
- Thioinosine D13-20-30-50-30+ #
- Methylthioinosine D13-20-30-50-30-10 #
- Tubercidin D13-20-30-60 #
- Pyrimidine Nucleosides D13-20-40+ #
- Cytidine D13-20-40-10+ #
- Azacitidine D13-20-40-10-10+ #
- Decitabine D13-20-40-10-10-10 #
- Cytarabine D13-20-40-10-20+ #
- Ancitabine D13-20-40-10-20-10 #
- Enocitabine D13-20-40-10-20-20 #
- Fiacitabine D13-20-40-10-20-30 #

Deoxycytidine D13-20-40-10-30+ #  
 Apricitabine D13-20-40-10-30-10 #  
 Bromodeoxycytidine D13-20-40-10-30-20+ #  
   Ibicitabine D13-20-40-10-30-20-10 #  
 Capecitabine D13-20-40-10-30-30 #  
 Emtricitabine D13-20-40-10-30-40+ #  
   Elvitegravir-Cobicistat-Emtricitabine-Tenofovir D13-20-40-10-30-40-10 #  
   Emtricitabine-Tenofovir D13-20-40-10-30-40-20 #  
 Galocitabine D13-20-40-10-30-50 #  
 Gemcitabine D13-20-40-10-30-60 #  
 Zalcitabine D13-20-40-10-30-70+ #  
   Elvucitabine D13-20-40-10-30-70-10 #  
   Lamivudine D13-20-40-10-30-70-20 #  
 \* Molnupiravir D13-20-40-10-40 #  
 Formycins D13-20-40-20+ #  
   Coformycin D13-20-40-20-10+ #  
   Pentostatin D13-20-40-20-10-10 #  
 Thymidine D13-20-40-30+ #  
   Stavudine D13-20-40-30-10 #  
   Telbivudine D13-20-40-30-20 #  
   Trifluridine D13-20-40-30-30 #  
   Zidovudine D13-20-40-30-40 #  
 Tunicamycin D13-20-40-40 #  
 Uridine D13-20-40-50+ #  
   Arabinofuranosyluracil D13-20-40-50-10+ #  
     Fialuridine D13-20-40-50-10-10 #  
     Netivudine D13-20-40-50-10-20 #  
     Sorivudine D13-20-40-50-10-30 #  
   Azauridine D13-20-40-50-20+ #  
     Azaribine D13-20-40-50-20-10 #  
 \* Cedazuridine D13-20-40-50-30 #  
   3-Deazauridine D13-20-40-50-40 #  
   Denufosol D13-20-40-50-50 #  
   Deoxyuridine D13-20-40-50-60+ #  
     Broxuridine D13-20-40-50-60-10+ #  
     Brivudine D13-20-40-50-60-10-10 #  
     Floxuridine D13-20-40-50-60-20+ #  
     Doxifluridine D13-20-40-50-60-20-10 #  
     Idoxuridine D13-20-40-50-60-30 #  
   Pseudouridine D13-20-40-50-70 #  
   Tetrahydrouridine D13-20-40-50-80 #  
   Thiouridine D13-20-40-50-90 #  
 Valopicitabine D13-20-40-60 #  
 Ribonucleosides D13-20-50+  
   Adenosine D13-20-50-10+ #  
     Adenosine-5'-(N-ethylcarboxamide) D13-20-50-10-10 #  
     S-Adenosylhomocysteine D13-20-50-10-20 #  
     S-Adenosylmethionine D13-20-50-10-30 #  
     2-Chloroadenosine D13-20-50-10-40+ #  
     Cladribine D13-20-50-10-40-10 #  
     Isopentenyladenosine D13-20-50-10-50 #  
     Phenylisopropyladenosine D13-20-50-10-60 #  
     Ticagrelor D13-20-50-10-70 #  
   Cytidine D13-20-50-20+ #  
     Azacitidine D13-20-50-20-10+ #  
     Decitabine D13-20-50-20-10-10 #  
   \* Molnupiravir D13-20-50-20-20 #  
 Dichlororibofuranosylbenzimidazole D13-20-50-30 #  
 Formycins D13-20-50-40+ #

- Coformycin D13-20-50-40-10 #
- Guanosine D13-20-50-50+ #
  - Isatoribine D13-20-50-50-10 #
  - Nucleoside Q D13-20-50-50-20 #
- Inosine D13-20-50-60+ #
  - Didanosine D13-20-50-60-10 #
  - Inosine Pranobex D13-20-50-60-20 #
  - Thioinosine D13-20-50-60-30+ #
    - Methylthioinosine D13-20-50-60-30-10 #
- Maribavir D13-20-50-70 #
- Mizoribine D13-20-50-80 #
- Ribavirin D13-20-50-90+ #
  - Taribavirin D13-20-50-90-10 #
  - Tiazofurine D13-20-50-90-20 #
- Showdomycin D13-20-50-100 #
- Toyocamycin D13-20-50-110 #
- Tubercidin D13-20-50-120 #
- Uridine D13-20-50-130+ #
  - Azauridine D13-20-50-130-10+ #
    - Azaribine D13-20-50-130-10-10 #
  - \* Cedazuridine D13-20-50-130-20 #
    - 3-Deazauridine D13-20-50-130-30 #
  - Denufosol D13-20-50-130-40 #
  - Pseudouridine D13-20-50-130-50 #
  - Tetrahydrouridine D13-20-50-130-60 #
  - Thiouridine D13-20-50-130-70 #
- Thionucleosides D13-20-60+ #
  - Azathioprine D13-20-60-10 #
  - Thioinosine D13-20-60-20+ #
    - Methylthioinosine D13-20-60-20-10 #
  - Thiouridine D13-20-60-30 #
- Nucleotides D13-30+ #
  - Arabinonucleotides D13-30-10+
    - Arabinofuranosylcytosine Triphosphate D13-30-10-10 #
    - Cytarabine Ocfosfate D13-30-10-20 #
    - Vidarabine Phosphate D13-30-10-30 #
  - Cyclic Nucleotides D13-30-20+
    - Cyclic AMP D13-30-20-10+ #
      - 8-Bromo Cyclic AMP D13-30-20-10-10 #
      - Bucladesine D13-30-20-10-20 #
    - Cyclic CMP D13-30-20-20 #
    - Cyclic GMP D13-30-20-30+ #
      - Dibutyryl Cyclic GMP D13-30-20-30-10 #
    - Cyclic IMP D13-30-20-40 #
  - Deoxyribonucleotides D13-30-30+
    - Deoxyadenine Nucleotides D13-30-30-10 #
    - Deoxycytosine Nucleotides D13-30-30-20+ #
      - Denufosol D13-30-30-20-10 #
        - Deoxycytidine Monophosphate D13-30-30-20-20 #
    - Deoxyguanine Nucleotides D13-30-30-30 #
    - Deoxyuracil Nucleotides D13-30-30-40+ #
      - Fluorodeoxyuridylate D13-30-30-40-10 #
    - Nucleoside Diphosphate Sugars D13-30-30-50 #
    - Thymine Nucleotides D13-30-30-60+ #
      - Thymidine Monophosphate D13-30-30-60-10 #
  - Dideoxynucleotides D13-30-40
  - Dinucleoside Phosphates D13-30-50
  - Polynucleotides D13-30-60+
    - Oligonucleotides D13-30-60-10+

**Antagomirs** D13-30-60-10-10  
**Antisense Oligonucleotides** D13-30-60-10-20+ #  
     **Antisense Oligodeoxyribonucleotides** D13-30-60-10-20-10+ #  
         **Mipomersen** D13-30-60-10-20-10-10 #  
         **Trecovirsen** D13-30-60-10-20-10-20 #  
         \* **Viltolarsen** D13-30-60-10-20-10-30 #  
     **Antisense Oligoribonucleotides** D13-30-60-10-20-20+ #  
         **Nusinersen** D13-30-60-10-20-20-10 #  
         **Eteplirsen** D13-30-60-10-20-30 #  
         **Fomivirsen** D13-30-60-10-20-40 #  
**Edifoligide** D13-30-60-10-30 #  
**Mipomersen** D13-30-60-10-40 #  
**Morpholinos** D13-30-60-10-50+ #  
     **Eteplirsen** D13-30-60-10-50-10 #  
**Motesanib** D13-30-60-10-60 #  
**Nucleotide Aptamers** D13-30-60-10-70+  
     **Pegaptanib** D13-30-60-10-70-10  
**Nusinersen** D13-30-60-10-80 #  
**Oligodeoxyribonucleotides** D13-30-60-10-90+  
     **Agatolimod** D13-30-60-10-90-10 #  
     **DNA Primers** D13-30-60-10-90-20 #  
**Oligoribonucleotides** D13-30-60-10-100  
**Peptide Nucleic Acids** D13-30-60-10-110  
**Phosphorothioate Oligonucleotides** D13-30-60-10-120+  
     **Alicaforsen** D13-30-60-10-120-10 #  
     **Aprinocarsen** D13-30-60-10-120-20 #  
**Pyrimidine Dimers** D13-30-60-10-130 #  
     \* **Viltolarsen** D13-30-60-10-140 #  
**Polydeoxyribonucleotides** D13-30-60-20+  
     **Apurinic Acid** D13-30-60-20-10 #  
     **Defibrotide** D13-30-60-20-20 #  
     **Poly dA-dT** D13-30-60-20-30  
     **Poly T** D13-30-60-20-40  
**Polyribonucleotides** D13-30-60-30+  
     **Apurinic Acid** D13-30-60-30-10 #  
     **Poly A** D13-30-60-30-20+  
         **Poly A-U** D13-30-60-30-20-10 #  
     **Poly Adenosine Diphosphate Ribose** D13-30-60-30-30 #  
     **Poly C** D13-30-60-30-40+  
         **Poly I-C** D13-30-60-30-40-10 #  
     **Poly G** D13-30-60-30-50  
     **Poly I** D13-30-60-30-60+  
         **Poly I-C** D13-30-60-30-60-10 #  
     **Poly U** D13-30-60-30-70+  
         **Poly A-U** D13-30-60-30-70-10 #  
**Purine Nucleotides** D13-30-70+ #  
     **Adenine Nucleotides** D13-30-70-10+ #  
         **Adenosine Diphosphate** D13-30-70-10-10+ #  
             **Adenosine Diphosphate Sugars** D13-30-70-10-10-10+ #  
                 **Adenosine Diphosphate Glucose** D13-30-70-10-10-10-10 #  
                 **Adenosine Diphosphate Ribose** D13-30-70-10-10-10-20+ #  
                     **O-Acetyl-ADP-Ribose** D13-30-70-10-10-10-20-10 #  
                     **Cyclic ADP-Ribose** D13-30-70-10-10-10-20-20 #  
         **Adenosine Monophosphate** D13-30-70-10-20+ #  
             **Adenosine Phosphosulfate** D13-30-70-10-20-10 #  
             **Cangrelor** D13-30-70-10-20-20 #  
             \* **Remdesivir** D13-30-70-10-20-30 #  
         **Adenosine Triphosphate** D13-30-70-10-30+ #  
             **Adenylyl Imidodiphosphate** D13-30-70-10-30-10 #

- Ethenoadenosine Triphosphate D13-30-70-10-30-20 #
- Clofarabine D13-30-70-10-40 #
- Coenzyme A D13-30-70-10-50+ #
  - Acyl Coenzyme A D13-30-70-10-50-10+ #
    - Acetyl Coenzyme A D13-30-70-10-50-10-10 #
    - Malonyl Coenzyme A D13-30-70-10-50-10-20 #
    - Palmitoyl Coenzyme A D13-30-70-10-50-10-30 #
- Cyclic AMP D13-30-70-10-60+ #
  - 8-Bromo Cyclic AMP D13-30-70-10-60-10 #
- Bucladesine D13-30-70-10-60-20 #
- Deoxyadenine Nucleotides D13-30-70-10-70 #
- Flavin-Adenine Dinucleotide D13-30-70-10-80 #
- NAD D13-30-70-10-90 #
- NADP D13-30-70-10-100 #
- Phosphoadenosine Phosphosulfate D13-30-70-10-110 #
- Vidarabine Phosphate D13-30-70-10-120 #
- Guanine Nucleotides D13-30-70-20+ #
  - Cyclic GMP D13-30-70-20-10+ #
    - Dibutyryl Cyclic GMP D13-30-70-20-10-10 #
  - Deoxyguanine Nucleotides D13-30-70-20-20 #
  - Guanosine Diphosphate D13-30-70-20-30+ #
    - Guanosine Diphosphate Sugars D13-30-70-20-30-10+ #
      - Guanosine Diphosphate Fucose D13-30-70-20-30-10-10 #
      - Guanosine Diphosphate Mannose D13-30-70-20-30-10-20 #
  - Guanosine Monophosphate D13-30-70-20-40 #
  - Guanosine Pentaphosphate D13-30-70-20-50 #
  - Guanosine Tetraphosphate D13-30-70-20-60 #
  - Guanosine Triphosphate D13-30-70-20-70+ #
    - Guanosine 5'-O-(3-Thiotriphosphate) D13-30-70-20-70-10 #
    - Guanylyl Imidodiphosphate D13-30-70-20-70-20 #
- RNA Caps D13-30-70-20-80+ #
  - RNA Cap Analogs D13-30-70-20-80-10 #
- Inosine Nucleotides D13-30-70-30+ #
  - Cyclic IMP D13-30-70-30-10 #
  - Inosine Diphosphate D13-30-70-30-20 #
  - Inosine Monophosphate D13-30-70-30-30 #
  - Inosine Triphosphate D13-30-70-30-40 #
- Pyrimidine Nucleotides D13-30-80+ #
  - Apurinic Acid D13-30-80-10 #
  - Cytosine Nucleotides D13-30-80-20+ #
    - Arabinofuranosylcytosine Triphosphate D13-30-80-20-10 #
    - Cyclic CMP D13-30-80-20-20 #
    - Cytidine Diphosphate D13-30-80-20-30+ #
      - Cytidine Diphosphate Choline D13-30-80-20-30-10 #
      - Cytidine Diphosphate Diglycerides D13-30-80-20-30-20 #
    - Cytidine Monophosphate D13-30-80-20-40+ #
      - Cytarabine Ocfosfate D13-30-80-20-40-10 #
      - Cytidine Monophosphate N-Acetylneuraminic Acid D13-30-80-20-40-20 #
    - Cytidine Triphosphate D13-30-80-20-50 #
  - Deoxycytosine Nucleotides D13-30-80-20-60+ #
    - Denufosal D13-30-80-20-60-10 #
    - Deoxycytidine Monophosphate D13-30-80-20-60-20 #
- Pyrimidine Dimers D13-30-80-30 #
- Thymine Nucleotides D13-30-80-40+ #
  - Thymidine Monophosphate D13-30-80-40-10 #
- Uracil Nucleotides D13-30-80-50+ #
  - Deoxyuracil Nucleotides D13-30-80-50-10+ #
    - Fluorodeoxyuridylate D13-30-80-50-10-10 #
  - Diquafosol D13-30-80-50-20 #

- Uridine Diphosphate D13-30-80-50-30+ #
- Uridine Diphosphate Sugars D13-30-80-50-30-10+ #
  - Uridine Diphosphate N-Acetylgalactosamine D13-30-80-50-30-10-10 #
  - Uridine Diphosphate N-Acetylglucosamine D13-30-80-50-30-10-20 #
  - Uridine Diphosphate N-Acetylmuramic Acid D13-30-80-50-30-10-30 #
  - Uridine Diphosphate Galactose D13-30-80-50-30-10-40 #
  - Uridine Diphosphate Glucose D13-30-80-50-30-10-50 #
  - Uridine Diphosphate Glucuronic Acid D13-30-80-50-30-10-60 #
  - Uridine Diphosphate Xylose D13-30-80-50-30-10-70 #
- Uridine Monophosphate D13-30-80-50-40+ #
  - Sofosbuvir D13-30-80-50-40-10 #
- Uridine Triphosphate D13-30-80-50-50 #
- Ribonucleotides D13-30-90+
- Adenine Nucleotides D13-30-90-10+ #
  - Adenosine Diphosphate D13-30-90-10-10+ #
    - Adenosine Diphosphate Sugars D13-30-90-10-10-10+ #
      - Adenosine Diphosphate Glucose D13-30-90-10-10-10-10 #
      - Adenosine Diphosphate Ribose D13-30-90-10-10-10-20+ #
        - O-Acetyl-ADP-Ribose D13-30-90-10-10-10-20-10 #
        - Cyclic ADP-Ribose D13-30-90-10-10-10-20-20 #
  - Adenosine Monophosphate D13-30-90-10-20+ #
    - Adenosine Phosphosulfate D13-30-90-10-20-10 #
    - Cangrelor D13-30-90-10-20-20 #
    - \* Remdesivir D13-30-90-10-20-30 #
  - Adenosine Triphosphate D13-30-90-10-30+ #
    - Adenylyl Imidodiphosphate D13-30-90-10-30-10 #
    - Ethenoadenosine Triphosphate D13-30-90-10-30-20 #
- Clofarabine D13-30-90-10-40 #
- Coenzyme A D13-30-90-10-50+ #
  - Acyl Coenzyme A D13-30-90-10-50-10+ #
    - Acetyl Coenzyme A D13-30-90-10-50-10-10 #
    - Malonyl Coenzyme A D13-30-90-10-50-10-20 #
    - Palmitoyl Coenzyme A D13-30-90-10-50-10-30 #
- Cyclic AMP D13-30-90-10-60+ #
  - 8-Bromo Cyclic AMP D13-30-90-10-60-10 #
  - Bucladesine D13-30-90-10-60-20 #
- Flavin-Adenine Dinucleotide D13-30-90-10-70 #
- NAD D13-30-90-10-80 #
- NADP D13-30-90-10-90 #
- Phosphoadenosine Phosphosulfate D13-30-90-10-100 #
- Cytosine Nucleotides D13-30-90-20+ #
  - Cyclic CMP D13-30-90-20-10 #
  - Cytidine Diphosphate D13-30-90-20-20+ #
    - Cytidine Diphosphate Choline D13-30-90-20-20-10 #
    - Cytidine Diphosphate Diglycerides D13-30-90-20-20-20 #
  - Cytidine Monophosphate D13-30-90-20-30+ #
    - Cytarabine Ocfosfate D13-30-90-20-30-10 #
    - Cytidine Monophosphate N-Acetylneuraminic Acid D13-30-90-20-30-20 #
  - Cytidine Triphosphate D13-30-90-20-40 #
- Flavin Mononucleotide D13-30-90-30 #
- Guanine Nucleotides D13-30-90-40+ #
  - Cyclic GMP D13-30-90-40-10+ #
    - Dibutyryl Cyclic GMP D13-30-90-40-10-10 #
  - Guanosine Diphosphate D13-30-90-40-20+ #
    - Guanosine Diphosphate Sugars D13-30-90-40-20-10+ #
      - Guanosine Diphosphate Fucose D13-30-90-40-20-10-10 #
      - Guanosine Diphosphate Mannose D13-30-90-40-20-10-20 #
  - Guanosine Monophosphate D13-30-90-40-30 #
  - Guanosine Pentaphosphate D13-30-90-40-40 #

- Guanosine Tetraphosphate D13-30-90-40-50 #
- Guanosine Triphosphate D13-30-90-40-60+ #
  - Guanosine 5'-O-(3-Thiotriphosphate) D13-30-90-40-60-10 #
  - Guanylyl Imidodiphosphate D13-30-90-40-60-20 #
- RNA Caps D13-30-90-40-70+ #
  - RNA Cap Analogs D13-30-90-40-70-10 #
- Inosine Nucleotides D13-30-90-50+ #
  - Cyclic IMP D13-30-90-50-10 #
  - Inosine Diphosphate D13-30-90-50-20 #
  - Inosine Monophosphate D13-30-90-50-30 #
  - Inosine Triphosphate D13-30-90-50-40 #
- Nicotinamide Mononucleotide D13-30-90-60
- Nucleoside Diphosphate Sugars D13-30-90-70+ #
  - Adenosine Diphosphate Sugars D13-30-90-70-10+ #
    - Adenosine Diphosphate Glucose D13-30-90-70-10-10 #
    - Adenosine Diphosphate Ribose D13-30-90-70-10-20+ #
      - O-Acetyl-ADP-Ribose D13-30-90-70-10-20-10 #
      - Cyclic ADP-Ribose D13-30-90-70-10-20-20 #
      - Poly Adenosine Diphosphate Ribose D13-30-90-70-10-20-30 #
  - Cytidine Diphosphate Diglycerides D13-30-90-70-20 #
  - Guanosine Diphosphate Sugars D13-30-90-70-30+ #
    - Guanosine Diphosphate Fucose D13-30-90-70-30-10 #
    - Guanosine Diphosphate Mannose D13-30-90-70-30-20 #
  - Uridine Diphosphate Sugars D13-30-90-70-40+ #
    - Uridine Diphosphate N-Acetylgalactosamine D13-30-90-70-40-10 #
    - Uridine Diphosphate N-Acetylglucosamine D13-30-90-70-40-20 #
    - Uridine Diphosphate N-Acetylmuramic Acid D13-30-90-70-40-30 #
    - Uridine Diphosphate Galactose D13-30-90-70-40-40 #
    - Uridine Diphosphate Glucose D13-30-90-70-40-50 #
    - Uridine Diphosphate Glucuronic Acid D13-30-90-70-40-60 #
    - Uridine Diphosphate Xylose D13-30-90-70-40-70 #
- Uracil Nucleotides D13-30-90-80+ #
  - Diquafosol D13-30-90-80-10 #
  - Uridine Diphosphate D13-30-90-80-20+ #
    - Uridine Diphosphate Sugars D13-30-90-80-20-10+ #
      - Uridine Diphosphate N-Acetylgalactosamine D13-30-90-80-20-10-10 #
      - Uridine Diphosphate N-Acetylglucosamine D13-30-90-80-20-10-20 #
      - Uridine Diphosphate N-Acetylmuramic Acid D13-30-90-80-20-10-30 #
      - Uridine Diphosphate Galactose D13-30-90-80-20-10-40 #
      - Uridine Diphosphate Glucose D13-30-90-80-20-10-50 #
      - Uridine Diphosphate Glucuronic Acid D13-30-90-80-20-10-60 #
      - Uridine Diphosphate Xylose D13-30-90-80-20-10-70 #
  - Uridine Monophosphate D13-30-90-80-30+ #
    - Sofosbuvir D13-30-90-80-30-10 #
  - Uridine Triphosphate D13-30-90-80-40 #
- Thionucleotides D13-30-100+ #
  - Fomivirsen D13-30-100-10 #
  - Guanosine 5'-O-(3-Thiotriphosphate) D13-30-100-20 #
  - Oblimersen D13-30-100-30 #
  - Trecovirsen D13-30-100-40 #
- 核酸 D13-40+
  - DNA D13-40-10+
    - A形DNA D13-40-10-10 #
    - Antisense DNA D13-40-10-20+ #
      - Antisense Oligodeoxyribonucleotides D13-40-10-20-10+ #
        - Mipomersen D13-40-10-20-10-10 #
        - Trecovirsen D13-40-10-20-10-20 #
        - \* Viltolarsen D13-40-10-20-10-30 #
    - B形DNA D13-40-10-30 #



- C形DNA D13-40-10-40 #
- Concatenated DNA D13-40-10-50 #
- DNA付加体 D13-40-10-60 #
- DNA Transposable Elements D13-40-10-70 #
- rDNA D13-40-10-80+
  - リボソームスペーサーDNA D13-40-10-80-10 #
- Retroelements D13-40-10-90 #
- Z形DNA D13-40-10-100 #
- アイソコア D13-40-10-110 #
- 一本鎖DNA D13-40-10-120+ #
  - cDNA D13-40-10-120-10+ #
    - \* Bepeminogene Perplasmid D13-40-10-120-10-10 #
- 遺伝子間DNA D13-40-10-130+ #
  - リボソームスペーサーDNA D13-40-10-130-10 #
- ウイルスDNA D13-40-10-140
- \* 環境DNA D13-40-10-150
- 環状DNA D13-40-10-160+ #
  - Catenated DNA D13-40-10-160-10 #
  - 超ラセンDNA D13-40-10-160-20 #
  - ミトコンドリアDNA D13-40-10-160-30+
    - キネトプラストDNA D13-40-10-160-30-10 #
  - 葉緑体DNA D13-40-10-160-40 #
- 組換えDNA D13-40-10-170
- 原虫DNA D13-40-10-180+
  - キネトプラストDNA D13-40-10-180-10 #
- 古細菌DNA D13-40-10-190
- 古代DNA D13-40-10-200
- 細菌DNA D13-40-10-210
- サテライトDNA D13-40-10-220 #
- 十字型DNA D13-40-10-230 #
- 腫瘍DNA D13-40-10-240+
  - 循環腫瘍DNA D13-40-10-240-10 #
- 触媒DNA D13-40-10-250 #
- 植物DNA D13-40-10-260+
  - 葉緑体DNA D13-40-10-260-10 #
- 真菌DNA D13-40-10-270
- 蠕虫DNA D13-40-10-280
- 藻類DNA D13-40-10-290
- RNA D13-40-20+
  - Antisense RNA D13-40-20-10+ #
    - Antisense Oligoribonucleotides D13-40-20-10-10+ #
      - Nusinersen D13-40-20-10-10-10 #
    - MicroRNAs D13-40-20-10-20+ #
      - 循環MicroRNA D13-40-20-10-20-10 #
    - siRNA D13-40-20-10-30+ #
      - Patisiran D13-40-20-10-30-10 #
  - cRNA D13-40-20-20 #
  - mRNA D13-40-20-30+
    - RNAスプライス部位 D13-40-20-30-10 #
    - RNA Caps D13-40-20-30-20+ #
      - RNA Cap Analogs D13-40-20-30-20-10 #
    - コドン D13-40-20-30-30+ #
      - 開始コドン D13-40-20-30-30-10 #
      - 終止コドン D13-40-20-30-30-20+ #
        - ナンセンスコドン D13-40-20-30-30-20-10 #
    - 貯蔵mRNA D13-40-20-30-40
    - 非翻訳領域 D13-40-20-30-50+ #
      - 3'非翻訳領域 D13-40-20-30-50-10 #
      - 5'非翻訳領域 D13-40-20-30-50-20 #

- リボスイッチ D13-40-20-30-60 #
- RNAアイソフォーム D13-40-20-40
- RNA前駆体 D13-40-20-50 #
- rRNA D13-40-20-60+
  - rRNA 5S D13-40-20-60-10
  - rRNA 5.8S D13-40-20-60-20
  - rRNA 16S D13-40-20-60-30
  - rRNA 18S D13-40-20-60-40
  - rRNA 23S D13-40-20-60-50
  - rRNA 28S D13-40-20-60-60
- Self-Splicing Ribosomal RNA D13-40-20-60-70 #
- tRNA D13-40-20-70+
  - Amino Acid-Specific tRNA D13-40-20-70-10+
    - Alanine-Specific tRNA D13-40-20-70-10-10
    - Arginine-Specific tRNA D13-40-20-70-10-20
    - Asparagine-Specific tRNA D13-40-20-70-10-30
    - Aspartic Acid-Specific tRNA D13-40-20-70-10-40
    - Cysteine-Specific tRNA D13-40-20-70-10-50
    - Glutamic Acid-Specific tRNA D13-40-20-70-10-60
    - Glutamine-Specific tRNA D13-40-20-70-10-70
    - Glycine-Specific tRNA D13-40-20-70-10-80
    - Histidine-Specific tRNA D13-40-20-70-10-90
    - Isoleucine-Specific tRNA D13-40-20-70-10-100
    - Leucine-Specific tRNA D13-40-20-70-10-110
    - Lysine-Specific tRNA D13-40-20-70-10-120
    - Methionine-Specific tRNA D13-40-20-70-10-130
    - Phenylalanine-Specific tRNA D13-40-20-70-10-140
    - Proline-Specific tRNA D13-40-20-70-10-150
    - Serine-Specific tRNA D13-40-20-70-10-160
    - Threonine-Specific tRNA D13-40-20-70-10-170
    - Tryptophan-Specific tRNA D13-40-20-70-10-180
    - Tyrosine-Specific tRNA D13-40-20-70-10-190
    - Valine-Specific tRNA D13-40-20-70-10-200
  - Amino Acyl tRNA D13-40-20-70-20 #
- アンチコドン D13-40-20-70-30 #
- ウイルスRNA D13-40-20-80
- 核RNA D13-40-20-90+
  - snRNA D13-40-20-90-10+ #
    - snoRNA D13-40-20-90-10-10 #
  - ヘテロ核RNA D13-40-20-90-20
- \* 環状RNA D13-40-20-100
- 原虫RNA D13-40-20-110
- 古細菌RNA D13-40-20-120
- 細菌RNA D13-40-20-130
- サテライトRNA D13-40-20-140+
  - キュウリモザイクウイルスサテライト D13-40-20-140-10
- 腫瘍RNA D13-40-20-150
- 植物RNA D13-40-20-160+
  - 葉緑体RNA D13-40-20-160-10
- 真菌RNA D13-40-20-170
- 蠕虫RNA D13-40-20-180
- 藻類RNA D13-40-20-190
- 二本鎖RNA D13-40-20-200 #
- 非翻訳RNA D13-40-20-210+
  - Catalytic RNA D13-40-20-210-10 #
    - 長鎖非翻訳RNA D13-40-20-210-20
    - 低分子非翻訳RNA D13-40-20-210-30+
  - MicroRNAs D13-40-20-210-30-10+ #
    - 循環MicroRNA D13-40-20-210-30-10-10 #

scRNA D13-40-20-210-30-20  
 siRNA D13-40-20-210-30-30+ #  
     Patisiran D13-40-20-210-30-30-10 #  
 SL RNA D13-40-20-210-30-40  
 snRNA D13-40-20-210-30-50+ #  
     snoRNA D13-40-20-210-30-50-10 #  
 ガイドRNA D13-40-20-210-30-60  
 非翻訳領域 D13-40-20-210-40+ #  
     RNA調節配列 D13-40-20-210-40-10+ #  
         Internal Ribosome Entry Sites D13-40-20-210-40-10-10 #  
         リボスイッチ D13-40-20-210-40-10-20 #  
     3'非翻訳領域 D13-40-20-210-40-20 #  
     5'非翻訳領域 D13-40-20-210-40-30 #  
 \* ミトコンドリアRNA D13-40-20-220  
 核酸プローブ D13-40-30+ #  
     Antisense Elements D13-40-30-10+ #  
         Antisense DNA D13-40-30-10-10+ #  
             Antisense Oligodeoxyribonucleotides D13-40-30-10-10-10+ #  
                 Mipomersen D13-40-30-10-10-10-10 #  
                 Trecovirsen D13-40-30-10-10-10-20 #  
             \* Viltolarsen D13-40-30-10-10-10-30 #  
         Antisense Oligonucleotides D13-40-30-10-20+ #  
             Antisense Oligodeoxyribonucleotides D13-40-30-10-20-10+ #  
                 Mipomersen D13-40-30-10-20-10-10 #  
                 Trecovirsen D13-40-30-10-20-10-20 #  
             \* Viltolarsen D13-40-30-10-20-10-30 #  
         Antisense Oligoribonucleotides D13-40-30-10-20-20+ #  
             Nusinersen D13-40-30-10-20-20-10 #  
             Eteplirsen D13-40-30-10-20-30 #  
             Fomivirsen D13-40-30-10-20-40 #  
         Antisense RNA D13-40-30-10-30+ #  
             Antisense Oligoribonucleotides D13-40-30-10-30-10+ #  
                 Nusinersen D13-40-30-10-30-10-10 #  
             MicroRNAs D13-40-30-10-30-20 #  
             siRNA D13-40-30-10-30-30 #  
     DNA Probes D13-40-30-20+ #  
         cDNA D13-40-30-20-10+ #  
             \* Bepersminogene Perplasmid D13-40-30-20-10-10 #  
         HLA DNA Probes D13-40-30-20-20 #  
         HPV DNA Probes D13-40-30-20-30 #  
     Oligonucleotide Probes D13-40-30-30 #  
     RNA Probes D13-40-30-40+ #  
         cRNA D13-40-30-40-10 #  
 核酸ヘテロ二本鎖 D13-40-40  
 固定化核酸 D13-40-50  
 遊離核酸 D13-40-60+  
     循環MicroRNA D13-40-60-10 #  
     循環腫瘍DNA D13-40-60-20 #  
 核酸前駆体 D13-50+  
     RNA前駆体 D13-50-10 #