



## Product Specifications

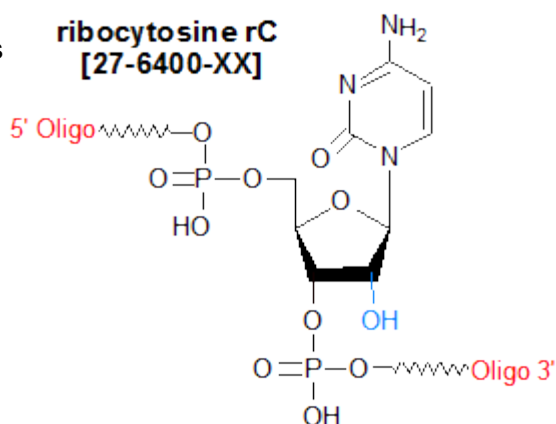
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

## Oligo Modifications

For research use only. Not for use in diagnostic procedures for clinical purposes.

### rC RNA Base

|                          |                     |
|--------------------------|---------------------|
| Category                 | RNA Oligo Synthesis |
| Modification Code        | rC                  |
| Reference Catalog Number | 27-6400C            |
| 5 Prime                  | Y                   |
| 3 Prime                  | Y                   |
| Internal                 | Y                   |
| Molecular Weight(mw)     | 305.18              |



Ribocytosine, or cytosine (rC) is a pyrimidine ribonucleoside, and is one of the four standard nucleosides that compose an RNA molecule. The presence of the -OH group at the 2'-position of the ribose results in RNA being less stable to DNA (which lacks -OH groups at this position), because this 2'-hydroxyl group can chemically attack the adjacent phosphodiester bond in the sugar-phosphate backbone of RNA, leading to cleavage of the backbone structure. rC forms a Watson-Crick base pair with rG (riboguanosine/guanosine) in RNA duplexes, or dG (deoxyriboguanosine) in RNA-DNA duplexes.