



## Product Specifications

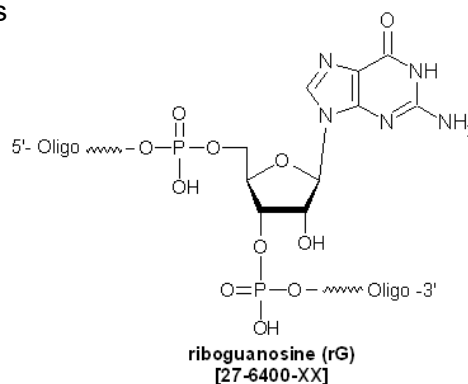
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

## Oligo Modifications

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

### rG RNA Base

Category	RNA Oligo Synthesis
Modification Code	rG
Reference Catalog Number	27-6400G
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	345.21



Riboguanosine, or guanosine (rG) is a purine deoxyribonucleoside, 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. rG forms a Watson-Crick base pair with rC (ribocytosine/cytosine) in RNA duplexes, or dC (deoxyribocytosine) in RNA-DNA duplexes.