

## 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	ribocytosine rC [27-6400-XX]	NH <sub>2</sub>
Modification Code	rC	-	N
Reference Catalog Number	27-6400C	5' Oligo	_ o \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
5 Prime	Υ	HO	0
3 Prime	Υ	110	$\smile$
Internal	Υ		O OH
Molecular Weight(mw)	305.18	0:	=P-0-///Oligo 3'
			OH

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.

