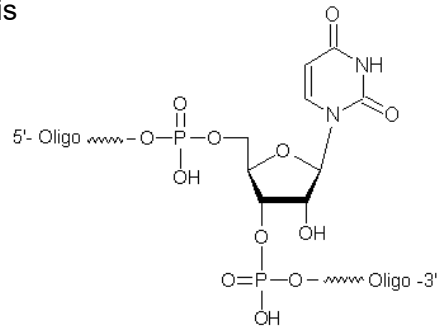
Oligo Modifications

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

rU RNA Base

Category	RNA Oligo Synthesis
Modification Code	rU
Reference Catalog Number	27-6400U
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	306.17



ribouridine (rU)
[27-6400-XX]

Ribouridine, or uridine (rU) is a purine ribonucleoside, and is one of the four standard ribonucleosides 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. rU forms a Watson-Crick base pair with rA (riboadensoine/adenosine) in RNA duplexes, and dA (deoxyadenosine) in RNA-DNA duplexes.