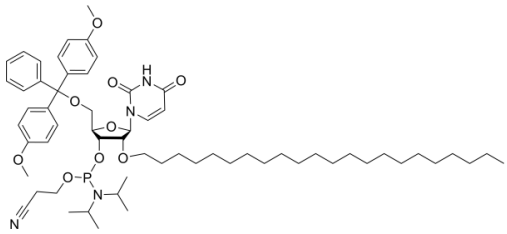
Product Data Sheet

Product Name: DMTr-2'-O-C22-rU-3'-CE-phosphoramidite
Cat. No.: GC81509

Chemical Properties

Cas. No.	2923115-86-8		
Formula	$C_{61}H_{91}N_4O_9P$	M.Wt	1055.37
Solubility	DMSO: 20 mg/mL (18.95 mM; ultrasonic and warming and heat to 60°C)	Storage	Store at -20°C, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

DMTr-2'-O-C22-rU-3'-CE-phosphoramidite is an RNA phosphoramidite monomer. DMTr-2'-O-C22-rU-3'-CE-phosphoramidite can be used for the construction and mechanistic studies of nucleic acid molecules [1].

In Vitro, DMTr-2'-O-C22-rU-3'-CE-phosphoramidite (compound 111) can be used to site-specifically introduce a lipophilic 2'-O-C22 modification at the uridine site in oligonucleotide synthesis, enabling

the construction of double-stranded RNA (dsRNA) molecules capable of extrahepatic delivery[1].

References:

[1]. Jayaprakash K. NAIR, et al. Extra-hepatic delivery iRNA compositions and methods of use thereof. WO2023064530A1. WIPO (PCT). 2023-04-20.