

## Product Data Sheet

Product Name: DMTr-2'-O-C22-rU-3'-CE-phosphoramidite

Cat. No.: GC81509

### Chemical Properties

Cas. No. 2923115-86-8

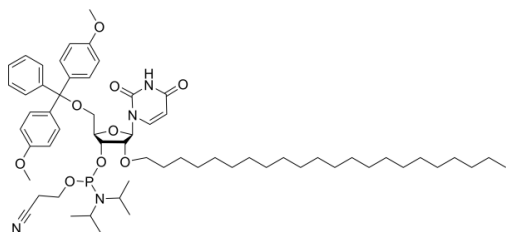
Formula  $C_{61}H_{91}N_4O_9P$  M.Wt 1055.37

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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

### References:

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

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