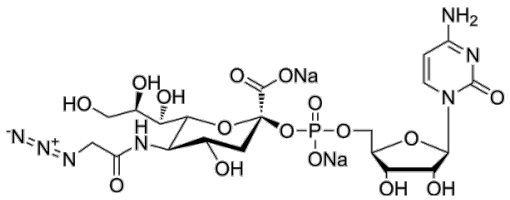
Product Data Sheet

Product Name: CMP-SiaNAz sodium
Cat. No.: GC81455

Chemical Properties

Cas. No.			
Formula	$C_{20}H_{28}N_7Na_2O_{16}P$	M.Wt	699.43
Solubility	H_2O: 100 mg/mL (142.97 mM; Need ultrasonic)	Storage	Store at -20°C
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

CMP-SiaNAz (CMP-NeuNAz) sodium is a sialic acid nucleotide sugar derivative. CMP-SiaNAz

sodium is integrated into the glycosidic chain through the action of STs in the Golgi apparatus, forming SiaNAz substances. CMP-SiaNAz sodium can serve as a substrate for bacterial-derived sialic acid transferases and is used for chemical enzymatic labeling and imaging of cell surface glycosides [1] [2].

References:

[1]. Hong S, et al. Bacterial glycosyltransferase-mediated cell-surface chemoenzymatic glycan modification. Nat Commun. 2019 Apr 17;10(1):1799.
[2]. Martinez-Duncker I, et al. Towards in vivo imaging of cancer sialylation. Int J Mol Imaging. 2011;2011:283497.