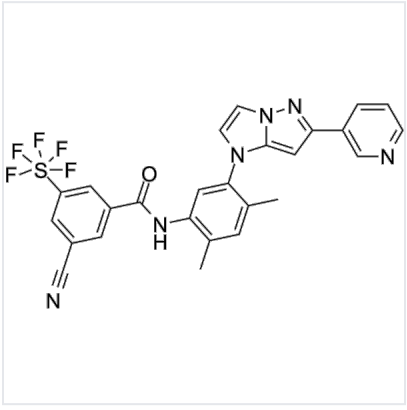
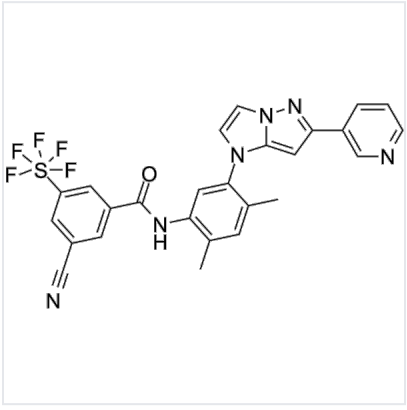
NT1-O12B

PRODUCT OVERVIEW

Product Name	NT1-O12B, Biochemical
Full Product Name	NT1-O12B
Product Gene Name	NT1-O12B biochemical
Purity/Purification	98%
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years
Solubility	DMSO: 200 mg/mL (280.45 mM), Need ultrasonic <1mg/ml refers to the product slightly soluble or insoluble
In vitro	It encapsulates AmB in pure NT1-lipidoids (namely NT1-O12B, NT1-O14B, NT1-O16B, and NT1-O18B) using a procedure similar to the DiR encapsulation. NT1-O12B is the dopant for enhanced brain delivery because it shows the highest DiR fluorescence intensity among all NT-lipidoids. Doping NT1-O12B to the BBB-impermeable lipidoid PBA-Q76-O16B resulted in an AmB formulation that could cross BBB. Using this approach, the AmB concentration in the brain tissue reached as high as 300 ng/g (AmB/tissue) with a delivery efficiency of about 0.135% of injected dose after 24 hours of intravenous injection with AmB (5 mg/kg)[1].
Related Product Information for NT1-O12B biochemical	NT1-O12B, an endogenous chemical and a neurotransmitter-derived lipidoid (NT-lipidoid), is an effective carrier for enhanced brain delivery of several blood-brain barrier (BBB)-impermeable cargos. Doping NT1-O12B into BBB-impermeable lipid nanoparticles (LNPs) gives the LNPs the ability to cross the BBB. NT-lipidoids formulation not only facilitate cargo crossing of the BBB, but also delivery of the cargo into neuronal cells for functional gene silencing or gene recombination[1].
Product References and Citations for NT1-O12B biochemical	1. Schneider H, et al. J Neurochem. 2017 Jan; 140(1):170-182. doi: 10.1111/jnc.13877. Epub 2016 Dec 12.Novel TIE-2 inhibitor BAY-826 displays in vivo efficacy in experimental syngeneic murine glioma models.
Other Notes	Small volumes of NT1-O12B biochemical vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NT1-O12B purchase	MBS5798834 is a biochemical targeting NT1-O12B.



Structure of NT1-O12B biochemical
BAY-826, CAS 1448316-08-2



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