

NT1-O12B biochemical

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CATALOG #
AAA227372

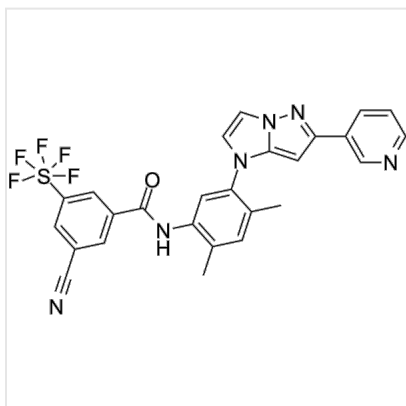
PRODUCT SYNONYMS

NT1-O12B; NT1-O12B biochemical

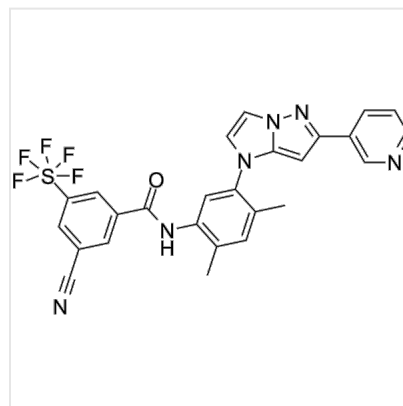
PRODUCT SPECIFICATIONS

Purity/Purification	98%
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].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
BAY-826, CAS 1448316-08-2



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ADDITIONAL INFORMATION

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].
References	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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/nt1-o12b/227372>