
Product Data Sheet

Product Name: DPTIP
Cat. No.: GC50602

Chemical Properties

Cas. No. 351353-48-5

SMILES COC1=CC(C2=NC(C3=CC=CC=C3)=C(C4=CC=CS4)N2)=CC(OC)=C1O

Formula C21H18N2O3S M.Wt 378.45

Solubility DMSO : 250 mg/mL (660.61 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

Potent and selective sphingomyelin phosphodiesterase (N-SMase2) inhibitor (IC₅₀ = 30 nM). Exhibits no inhibition of related enzymes alkaline phosphatase, phosphomonoesterase or acid sphingomyelinase. Inhibits extracellular vesicle (EV) release in primary astrocyte cultures and in vivo. Attenuates IL-1 β -induced astrocyte-derived EV release in a mouse model of brain injury and suppresses infiltration of immune cells into the brain. Metabolically stable and brain penetrant.

Rojas et al (2018) DPTIP, a newly identified potent brain penetrant neutral sphingomyelinase 2 inhibitor, regulates astrocyte-peripheral immune communication following brain inflammation. Sci.Rep. 8 17715 PMID:30531925

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

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