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Product Datasheet

DPTIP, CAS [[351353-48-5]] FBM-10-4394

Artikelname	DPTIP, CAS [[351353-48-5]]
Artikelnummer	FBM-10-4394
Hersteller Artikelnummer	10-4394
Alternativnummer	FBM-10-4394-5MG,FBM-10-4394-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Neutral sphingomyelinase 2 inhibitor...
Molekulargewicht	378.45
Reinheit	>98% by HPLC NMR (Conforms)
Formulierung	Light gray solid
CAS Nummer	[351353-48-5]
Formel	C ₂₁ H ₁₈ N ₂ O ₃ S

Anwendungsbeschreibung	DPTIP is a selective, potent ($IC_{50} = 30 \text{ nM}$), and brain penetrant inhibitor of neutral sphingomyelinase 2 (nSMase2).¹ In a mouse model of brain injury, it inhibited IL-1β-induced astrocyte-derived extracellular vesicle release which reduced cytokine upregulation and attenuation of infiltration of immune cells to the brain leading to decreased inflammation. DPTIP displayed potent antiviral activity against Zika and West Nile viruses (EC_{50} Vero cells: $0.26 \mu\text{M}$ and $1.56 \mu\text{M}$ respectively).² DPTIP acted synergistically with enzalutamide to significantly suppress cell proliferation, colony formation, and migration of metastatic castration resistant prostate cancer cells.³ It also reduced tumor size and weight in a prostate cancer mouse model.
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