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Product Datasheet

ANA-12, CAS [[219766-25-3]] FBM-10-2828

Artikelname	ANA-12, CAS [[219766-25-3]]
Artikelnummer	FBM-10-2828
Hersteller Artikelnummer	10-2828
Alternativnummer	FBM-10-2828-5MG, FBM-10-2828-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	TrkB antagonist...
Molekulargewicht	407.49
Reinheit	98% by TLC, NMR (Conforms)
Formulierung	White solid
CAS Nummer	[219766-25-3]
Formel	C22H21N3O3S

Anwendungsbeschreibung	TrkB receptor antagonist. Binds to two distinct receptor sites preventing activation by BDNF non-competitively, $IC_{50} = 45.6 \text{ nM}$ and $41.1 \text{ }\mu\text{M}$ for the high and low affinity sites respectively. Systemic administration to adult mice decreased TrkB activity in the brain without affecting neuronal survival or altering TrkA and TrkC functions. Displays antidepressant and anxiolytic properties in mouse models after systemic administration¹. Shows antidepressant effects on LPS-induced depression-like behavior in mice². Has been used to elucidate the role of BDNF in improvement of cognitive decline during calorie restriction³ and in the discovery of new neurotrophic agents⁴.
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