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## Product Datasheet

**ANA-12, CAS [[219766-25-3]]**

**FBM-10-2828**

Article Name	ANA-12, CAS [[219766-25-3]]
Biozol Catalog Number	FBM-10-2828
Supplier Catalog Number	10-2828
Alternative Catalog Number	FBM-10-2828-5MG,FBM-10-2828-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	TrkB antagonist...
Molecular Weight	407.49
Purity	98% by TLC, NMR (Conforms)
Form	White solid
CAS Number	[219766-25-3]
Formula	C22H21N3O3S
Application Notes	<p>TrkB receptor antagonist. Binds to two distinct receptor sites preventing activation by BDNF non-competitively, IC50 = 45.6 nM and 41.1 μM 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 administration<sup>1</sup>. Shows antidepressant effects on LPS-induced depression-like behavior in mice<sup>2</sup>. Has been used to elucidate the role of BDNF in improvement of cognitive decline during calorie restriction<sup>3</sup> and in the discovery of new neurotrophic agents<sup>4</sup>.</p>