

ANA-12

Catalog No: tcsc3616



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

219766-25-3

Formula:

$C_{22}H_{21}N_3O_3S$

Pathway:

Protein Tyrosine Kinase/RTK

Target:

Trk Receptor

Purity / Grade:

>98%

Solubility:

DMSO : 9.09 mg/mL (22.31 mM; Need ultrasonic); H₂O :

Observed Molecular Weight:

407.49

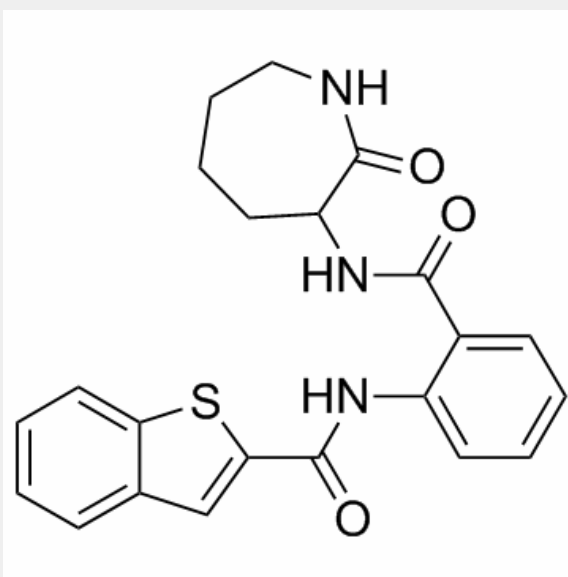
Product Description

ANA-12 is a potent and selective **TrkB** antagonist, and binds to TrkB^{ECD}-Fc with **K_d** of 12 μM.

In Vitro: ANA-12 (10 nM) prevents BDNF-induced neurite outgrowth in the TrkB-expressing cells, and completely abolishes the effects of BDNF at concentrations up to 10-100 μM^[1].

In Vivo: ANA-12 (0.5 mg/kg, i.p.) partially inhibits the total endogenous TrkB activity in the whole brain of mice. ANA-12, injected in

mice, demonstrates anxiolytic and antidepressive activities at 0.5 mg/kg. ANA-12 (0.5, 1.0, and 2.0 mg/kg) does not affect neuron survival^[1]. ANA-12 (0.5 mg/kg) shows antidepressant effects in lipopolysaccharide (LPS)-induced depression-like behavior. ANA-12 (0.5 mg/kg) significantly attenuates an increased immobility time in depressed mice. In the TST, FST, and SPT, ANA-12 (0.5 mg/kg) does not show antidepressant-like effects in the control mice^[2]. ANA-12 (0.5 mg/kg, i.p.) reverses the diminished self-administration of cocaine in CocSired rats^[3].



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