

## **TrkB Antagonist, ANA-12 - CAS 219766-25-3 - Calbiochem**

Art. ID SAF-5063040001

Unit EA

### Description

A cell-permeable thiophene carboxymide derived compound that acts as a direct and selective antagonist of TrkB receptor. Binds to the high affinity site on the extracellular domain of TrkB in a dose-dependent manner ( $K_d = 10$  nM) exhibiting much reduced binding to the low affinity site ( $K_d = 12 \times 10^3$  nM) indicating that it does not compete with BDNF for the same binding site. Does not affect TrkA or TrkC receptors. Shown to permeate the blood-brain barrier, however, its antagonistic effects are not uniform throughout the brain. Does not affect the survivability of neurons. Reduces anxiety and depression related behavior in mice.

| Text/Information | Analyte/Parameter | CAS number    | Concentration/Value | Unit | Method | Source |
|------------------|-------------------|---------------|---------------------|------|--------|--------|
|                  | ANA-12            | [219766-25-3] |                     |      |        |        |