

SR 142948 dihydrochloride

Chemical Properties

CAS No. :

Formula: C₃₉H₅₃Cl₂N₅O₆

Molecular Weight: 758.77

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	SR 142948 dihydrochloride is a selective, orally active, non-peptide neurotensin receptor (NT) antagonist, featuring IC ₅₀ values of 1.19 nM, 0.32 nM, and 3.96 nM in h-NTR1-CHO cells, HT-29 cells, and adult rat brain, respectively. It effectively inhibits NT-induced inositol monophosphate formation in HT-29 cells (IC ₅₀ = 3.9 nM) and blocks NT-induced hypothermia, analgesia, and steering behavior in vivo. Furthermore, it demonstrates blood-brain barrier permeability, positioning it as a potential tool for psychiatric disorder research [1] [2].
Targets(IC ₅₀)	Others, Neurotensin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3179 mL	6.5896 mL	13.1792 mL
5 mM	0.2636 mL	1.3179 mL	2.6358 mL
10 mM	0.1318 mL	0.659 mL	1.3179 mL
50 mM	0.0264 mL	0.1318 mL	0.2636 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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