

RG-15

Chemical Properties

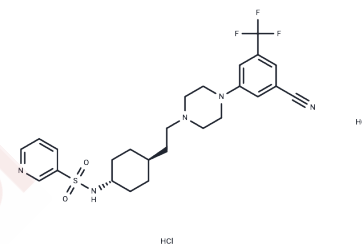
CAS No. : 1076189-55-3

Formula: C₂₅H₃₂Cl₂F₃N₅O₂S

Molecular Weight: 594.52

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	RG-15 is an orally active dopamine receptor antagonist with high affinity for the human D ₂ receptor (pK _i of 8.23) and human D ₃ receptor (pK _i of 10.49). It inhibits dopamine-stimulated [³⁵ S]GTPγS binding with IC ₅₀ values of 21.2 nM in rat striatal membranes, 36.7 nM in mouse A9 cells expressing human D ₂ L receptors, and 7.2 nM in CHO cells expressing human D ₃ receptors. RG-15 enhances dopamine turnover and synthesis in the striatum and olfactory bulb of mice, exhibiting antipsychotic activity.
Targets(IC ₅₀)	Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.682 mL	8.4101 mL	16.8203 mL
5 mM	0.3364 mL	1.682 mL	3.3641 mL
10 mM	0.1682 mL	0.841 mL	1.682 mL
50 mM	0.0336 mL	0.1682 mL	0.3364 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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