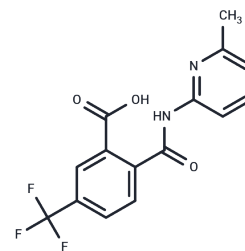


AF38469

Chemical Properties

CAS No. : 1531634-31-7
 Formula: C₁₅H₁₁F₃N₂O₃
 Molecular Weight: 324.25
 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	AF38469 is a new, specific and orally bioavailable Sortilin inhibitor (IC ₅₀ : 330 nM).
Targets(IC ₅₀)	Neurotensin Receptor
In vitro	AF38469 showed no inhibition or stimulation of >50% at 10 μM in a standard selectivity panel of ca. 70 targets run at CEREP. Importantly AF38469 showed no activity against the NTR1 receptor. In addition, AF38469 showed no activity against a selected panel of targets known to bind acidic molecules (d-Opioid, GPR40, PPARd, EP1, Angiotensin AT1, Endothelin ETA & B, MMP-12). AF38469 will serve as an important tool to further delineate the biology of Sortilin, and to facilitate the evaluation of the therapeutic potential of this protein.

Solubility Information

Solubility	DMSO: 40 mg/mL (123.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (6.17 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.084 mL	15.4202 mL	30.8404 mL
5 mM	0.6168 mL	3.084 mL	6.1681 mL
10 mM	0.3084 mL	1.542 mL	3.084 mL
50 mM	0.0617 mL	0.3084 mL	0.6168 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.

Reference

Schroder TJ, et al. The identification of AF38469: an orally bioavailable inhibitor of the VPS10P family sorting receptor Sortilin. *Bioorg Med Chem Lett.* 2014 Jan 1;24(1):177-80.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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