

PF-04745637

Chemical Properties

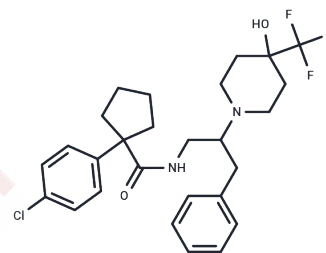
CAS No. : 1917294-46-2

Formula: C₂₇H₃₂ClF₃N₂O₂

Molecular Weight: 509

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	PF-04745637 is a potent and selective TRPA1 antagonist with an IC ₅₀ of 17 nM [1].
Targets(IC ₅₀)	TRP/TRPV Channel
In vivo	PF-04745637 (topically applied; 50 mg/mL and 100 mg/mL) significantly reduces cinnamaldehyde-mediated flare in rat skin[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (117.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.93 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	1.9646 mL	9.8232 mL	19.6464 mL
5 mM	0.3929 mL	1.9646 mL	3.9293 mL
10 mM	0.1965 mL	0.9823 mL	1.9646 mL
50 mM	0.0393 mL	0.1965 mL	0.3929 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

Laurie B. Schenkel, et al. The discovery of a potent series of carboxamide TRPA1 antagonists. J. Med. Chem. 2016, 59, 6, 2794-2809.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481