

PF-4840154

Chemical Properties

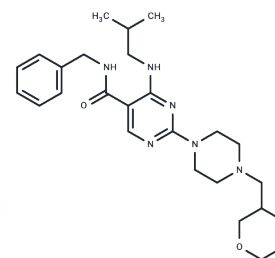
CAS No. : 1332708-14-1

Formula: C₂₆H₃₈N₆O₂

Molecular Weight: 466.62

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-4840154 is a potent, selective agonist of the rat and human TrpA1 channel, eliciting TrpA1-mediated nocifensive behavior in mouse, with EC ₅₀ values of 97 nM and 23 nM for [rTrpA1] and [hTrpA1], respectively.
Targets(IC ₅₀)	TRP/TRPV Channel

Solubility Information

Solubility	DMSO: 4.67 mg/mL (10.01 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: 1 mg/mL (2.14 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	2.1431 mL	10.7154 mL	21.4307 mL
5 mM	0.4286 mL	2.1431 mL	4.2861 mL
10 mM	0.2143 mL	1.0715 mL	2.1431 mL
50 mM	0.0429 mL	0.2143 mL	0.4286 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

Ryckmans T,etal.Design and pharmacological evaluation of PF-4840154, a non-electrophilic reference agonist of the TrpA1 channel.Bioorg Med Chem Lett. 2011 Aug 15;21(16):4857-9.

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