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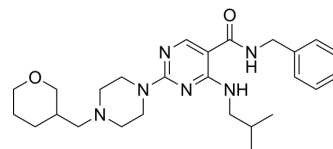
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PF-4840154

Cat. No.:	HY-18779		
CAS No.:	1332708-14-1		
Molecular Formula:	C ₂₆ H ₃₈ N ₆ O ₂		
Molecular Weight:	466.62		
Target:	TRP Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (107.15 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	PF-4840154 is a potent, selective agonist of the rat and human TrpA1 channel with EC ₅₀ s of 97 and 23 nM, respectively. PF-4840154 elicits TrpA1-mediated nocifensive behaviour in mouse ^[1] .
IC ₅₀ & Target	IC ₅₀ : 97 nM (rTrpA1), 23 nM (hTrpA1) ^[1]
In Vivo	PF-4840154 (30 nmol; intraplantar) elicits TrpA1-mediated nocifensive behaviour in mouse ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female CD1 mice (25-30g) (In TrpA1+/+ mice) ^[1]
Dosage:	30 nmol
Administration:	Intraplantar (i.pl) injection
Result:	Elicited robust licking behavior.

CUSTOMER VALIDATION

- Acta Physiol. 2021 Apr 5;e13659.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Ryckmans T, et al. 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):4857-4859.

Caution: Product has not been fully validated for medical applications. For research use only.

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