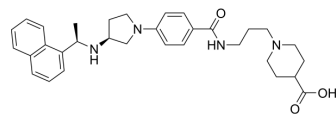


GSK3004774

Cat. No.:	HY-107773
CAS No.:	2138814-32-9
Molecular Formula:	C ₃₂ H ₄₀ N ₄ O ₃
Molecular Weight:	528.69
Target:	CaSR
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (189.15 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.8915 mL	9.4573 mL	18.9147 mL
		5 mM		0.3783 mL	1.8915 mL	3.7829 mL
10 mM		0.1891 mL	0.9457 mL	1.8915 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 (4.73 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	GSK3004774 is a potent, nonabsorbable agonist of CaSR, with an pEC ₅₀ of 7.3, 6.6 and 6.5 for human, mouse and rat CaSR, respectively. GSK3004774 shows an EC ₅₀ of 50 nM for human CaSR ^[1] .
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REFERENCES

[1]. Sparks SM, et al. Identification of potent, nonabsorbable agonists of the calcium-sensing receptor for GI-specific administration. *Bioorg Med Chem Lett*. 2017 Oct 15;27(20):4673-4677.

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

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