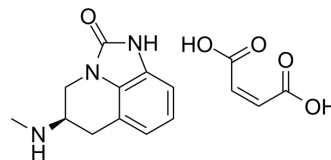


Sumanirole maleate

Cat. No.:	HY-70081A
CAS No.:	179386-44-8
Molecular Formula:	C ₁₅ H ₁₇ N ₃ O ₅
Molecular Weight:	319.31
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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 : 50 mg/mL (156.59 mM; Need ultrasonic)
H₂O : 10 mg/mL (31.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1318 mL	15.6588 mL	31.3175 mL
	5 mM	0.6264 mL	3.1318 mL	6.2635 mL
	10 mM	0.3132 mL	1.5659 mL	3.1318 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (156.59 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.83 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.83 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sumanirole maleate (U-95666E; PNU-95666E) is a highly selective D₂ receptor full agonist with an ED₅₀ of about 46 nM. Sumanirole plays an important role in the research of Parkinson's disease and restless leg syndrome^[1].

IC₅₀ & Target

D₂ Receptor

In Vitro

Sumanirole is a highly valuable tool compound for basic research to identify neurobiological mechanisms that are based on

a dopamine D2-linked (vs. D1, D3, D4, and D5-linked) mechanism of action.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biomed Pharmacother. 2021, 111500.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Arthur G. Romero, et al. Synthesis of the Selective D2 Receptor Agonist PNU-95666E from D-Phenylalanine Using a Sequential Oxidative Cyclization Strategy. J. Org. Chem. 1997, 62, 6582-6587

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

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