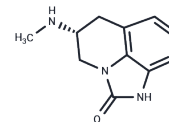
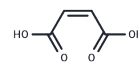


Sumanirole maleate

Chemical Properties

CAS No. :	179386-44-8
Formula:	C ₁₅ H ₁₇ N ₃ O ₅
Molecular Weight:	319.31
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	Sumanirole maleate (PNU-95666E) is a D2 receptor full agonist with high selectivity (ED ₅₀ = 46 nM) that improves motor function in patients with Parkinson's disease and plays an important role in the study of restless legs syndrome.
Targets(IC50)	Dopamine Receptor

Solubility Information

Solubility	DMSO: 40 mg/mL (125.27 mM),Sonication is recommended. H ₂ O: 8 mg/mL (25.05 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 (6.26 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	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
50 mM	0.0626 mL	0.3132 mL	0.6264 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

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

Bonifazi A, et al. Novel Bivalent Ligands Based on the Sumanriole Pharmacophore Reveal Dopamine D2 Receptor (D2R) Biased Agonism. J Med Chem. 2017 Apr 13;60(7):2890-2907.

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