Nebicapone

Cat. No.: HY-106405

CAS No.: 274925-86-9

Molecular Formula: $C_{14}H_{11}NO_5$

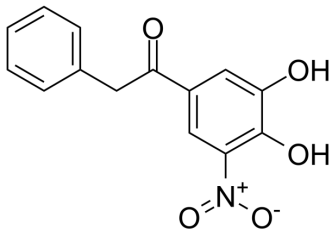
Molecular Weight: 273.24

Target: COMT

Pathway: Metabolic Enzyme/Protease; Neuronal Signaling

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (365.98 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	3.6598 mL	18.2989 mL	36.5979 mL
5 mM	0.7320 mL	3.6598 mL	7.3196 mL
10 mM	0.3660 mL	1.8299 mL	3.6598 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 (9.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nebicapone (BIA 3-202), a reversible catechol-O-methyltransferase (COMT) inhibitor, is mainly metabolized by glucuronidation. Nebicapone is mainly peripherally acting inhibitor that decreases the biotransformation of L-DOPA to 3-O-methyl-DOPA by inhibition of COMT, and it is potential for the treatment of Parkinson's disease[1].

REFERENCES

[1]. Loureiro AI, et al. Human metabolism of nebicapone (BIA 3-202), a novel catechol-o-methyltransferase inhibitor: characterization of in vitro glucuronidation. Drug Metab Dispos. 2006 Nov;34(11):1856-62.

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

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