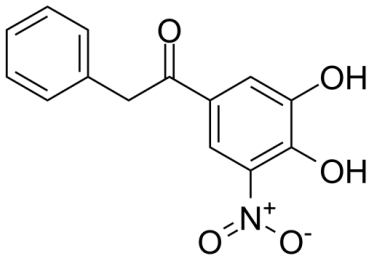
Data Sheet

Product Name:	Nebicapone
Cat. No.:	CS-0025737
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
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

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.

CAIndexNames:

Ethanone, 1-(3,4-dihydroxy-5-nitrophenyl)-2-phenyl-

SMILES:

O=C(C1=CC([N+]([O-])=O)=C(O)C(O)=C1)CC2=CC=CC=C2

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

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