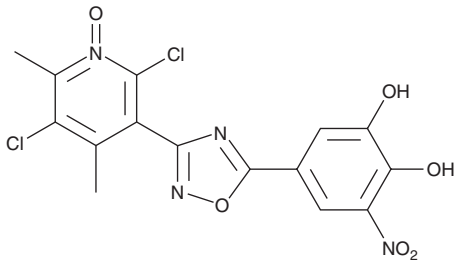
PRODUCT INFORMATION

Opicapone

Item No. 34253

CAS Registry No.:	923287-50-7
Formal Name:	5-[3-(2,5-dichloro-4,6-dimethyl-1-oxido-3-pyridinyl)-1,2,4-oxadiazol-5-yl]-3-nitro-1,2-benzenediol
Synonym:	BIA 9-1067
MF:	$C_{15}H_{10}Cl_2N_4O_6$
FW:	413.2
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Opicapone is supplied as a solid. A stock solution may be made by dissolving the opicapone in the solvent of choice, which should be purged with an inert gas. Opicapone is soluble in DMSO and dimethyl formamide. The solubility of opicapone in these solvents is approximately 30 mg/ml.

Description

Opicapone is a peripherally selective inhibitor of catechol-O-methyltransferase (COMT).[1] It inhibits COMT activity in rat liver, but not brain, homogenates (ED_{50} = 1.05 mg/kg). Opicapone (3 mg/kg) increases plasma levels of L-DOPA (Item No. 13248) and reduces plasma levels of 3-O-methyl-DOPA (3-OMD) when administered in combination with benserazide (Item No. 20298) and L-DOPA.[2] Formulations containing opicapone have been used as adjuvants in the treatment of "off" episodes associated with Parkinson's disease.

References

1. Kiss, L.E., Ferriera, H.S., Torrão, L., *et al*. Discovery of a long-acting, peripherally selective inhibitor of catechol-*O*-methyltransferase. *J. Med. Chem.* **53(8)**, 3396-3411 (2010).
2. Bonifácio, M.J., Torrão, L., Loureiro, A.I., *et al*. Pharmacological profile of opicapone, a third generation nitrocatechol catechol-*O*-methyl transferase inhibitor, in the rat. *Br. J. Pharmacol.* **172(7)**, 1739-1752 (2014).

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