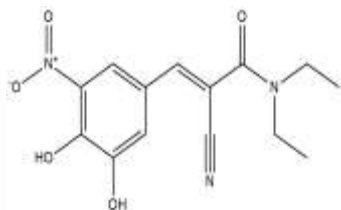


PRODUCT: Entacapone**ALTERNATE NAME:** (2E)-2-Cyano-3-(3,4-dihydroxy-5-nitrophenyl)-N,N-diethyl-2-propenamide**CATALOG #:** B1190-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₄H₁₅N₃O₅**MOLECULAR WEIGHT:** 305.29**CAS NUMBER:** 130929-57-6**APPEARANCE:** Yellow Solid**SOLUBILITY:** DMSO (>30mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light.**DESCRIPTION:** Entacapone is a potent catechol O-methyl transferase (COMT) inhibitor with IC₅₀ values of 14.3, 20.1 and 73.3 nM for rat liver soluble COMT, total COMT and membrane-bound COMT, respectively. Entacapone inhibits aggregation of α-synuclein in an *in vitro* assay and shown to block α-synuclein induced cell death in PC-12 cells. *In vivo* studies have shown that it increases the bioavailability of levodopa when given as an adjunct therapy for Parkinson's disease.**REFERENCES:** Giovanni,D., *et.al*, (2010). *J.Biol.Chem.* **285**,14941-14954**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**L-Carinitine Colorimetric/Fluorometric Assay Kit (**K642**)R-(+)-Etomoxir (**B1104**)**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**