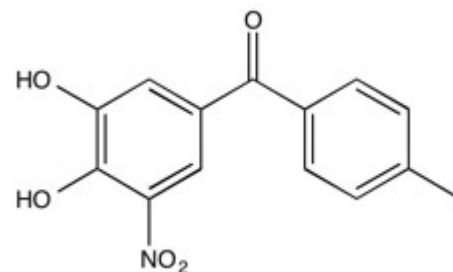


Tolcapone, COMT inhibitor; TTR aggregation inhibitor

Catalog	Unit
TBI3075-10MG	10 mg
TBI3075-50MG	50 mg

Product Details

Formal Name: (3,4-Dihydroxy-5-nitrophenyl)(4-methylphenyl)methanone
Molecular Formula: C₁₄H₁₁NO₅
Formula Weight: 273.24
CAS Number: 134308-13-7
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml)
Storage: -20°C
Stability: ≥ 1 year.



Applications

COMT inhibitor; TTR aggregation inhibitor

Functions

Catechol O-methyltransferase inhibitor (COMT), inhibiting both brain and peripheral enzymes. Potent inhibitor of alpha-synuclein and beta-amyloid oligomerization and fibrillogenesis protecting against extracellular toxicity. Binds to transthyretin (TTR) with high affinity (21 to 58 nM) and inhibits TTR aggregation in human plasma and prevents TTR-induced cytotoxicity in vitro. Stabilizes TTR in mice and humans in vivo. Inhibits O-methylation of exogenous polyphenols such as EGCG. Cell permeable. Orally bioavailable.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

For research use only.