

Catalog	Unit
TBI2025-10MG	10 mg
TBI2025-50MG	50 mg

Product Details

Formal Name: (2E)-2-Cyano-3-(3,4-dihydroxy-5-nitrophenyl)-N,N-diethyl-2-propenamamide

Molecular Formula: C₁₄H₁₅N₃O₅

Formula Weight: 305.29

CAS Number: 130929-57-6

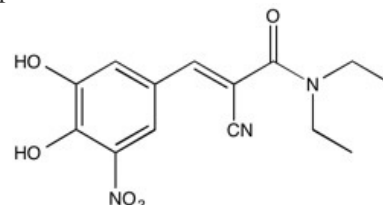
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 3 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.



Applications

COMT inhibitor; Anti-Parkinsons

Functions

Potent catechol O-methyltransferase (COMT) inhibitor (IC₅₀ = 14.3, 20.1 and 73.3 nM for rat liver soluble COMT, total COMT and membrane-bound COMT respectively). Increases bioavailability of L-DOPA as adjunct therapy for Parkinson's disease. Inhibits α-synuclein aggregation in vitro and inhibits α-synuclein-induced cell death in PC-12 cells. Antioxidant. Inhibits oxidative stress-induced cell death.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 3 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.