

IM-12, GSK-3 β inhibitor

Catalog	Unit
TBI5125-5MG	5 mg
TBI5125-25MG	25 mg

Product Details

Formal Name: 3-(4-Fluorophenylethylamino)-1-methyl-4-(2-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione

Molecular Formula: C₂₂H₂₀FN₃O₂

Formula Weight: 377.40

CAS Number: 1129669-05-1

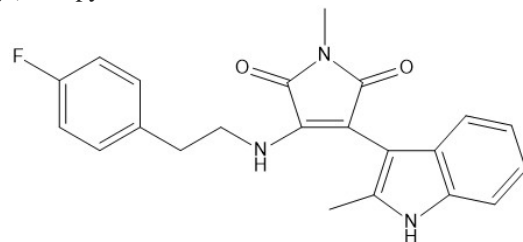
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (50 mg/ml)

Storage: -20°C

Stability: \geq 2 years.



Applications

GSK-3 β inhibitor

Functions

A potent and selective inhibitor of glycogen synthase kinase 3 β (GSK-3 β) IC₅₀=53 nM which induces neuronal differentiation. Activates the Wnt- β -catenin signaling pathway and attenuates tissue plasminogen activator-induced hemorrhagic transformation after acute ischemic stroke in animal models. Promoted hair follicle growth in vitro and antagonized the inhibition of hair follicles by dihydrotestosterone. Down-regulates Sox9 expression in limbal epithelial stem/progenitor cells leading to increased differentiation.

Application Procedures

First dissolved in DMSO (50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.