

TWS119

Catalog No: tcsc0224

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:

601514-19-6

Formula:

 $\mathsf{C}_{18}\mathsf{H}_{14}\mathsf{N}_4\mathsf{O}_2$

Pathway: Stem Cell/Wnt;PI3K/Akt/mTOR;Autophagy

Target: GSK-3;GSK-3;Autophagy

Purity / Grade:

Solubility: DMSO : ≥ 50 mg/mL (157.07 mM)

Observed Molecular Weight:

318.33

Product Description

TWS119 is a specific inhibitor of **GSK-3** β , with an **IC**₅₀ of 30 nM, and activates the wnt/ β -catenin pathway.

IC50 & Target: IC50: 30 nM (GSK-3β)^[1]

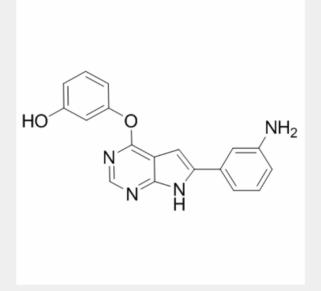
In Vitro:

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TWS119 induces neuronal differentiation in P19 EC cells and primary mouse ESCs. TWS119 binds to GSK-3 β with K_D of 126 nM, and modulates the activity of the complex, triggering downstream transcriptional events that lead the neuronal induction^[1]. TWS119 (+ $\gamma\delta$ T or CCR5⁺ $\gamma\delta$ T cell phenotypes. TWS119 (0.5, 1.0 and 2 μ M) increases the expression level of granzyme B in a dose-dependent manner. TWS119 also enhances the cytolytic activity of $\gamma\delta$ T cells against tumour cells in vitro^[3].

In Vivo: TWS119 (30 mg/kg, i.p.) improves the neurologic function and decreases neurologic deficit dcore in rtPA-treated MCAO rats. TWS119 effectively relieves cerebral edema, and reduces cerebral infarction in rats treated with rtPA. TWS119 also effectively decreases blood-brain barrier permeability in rtPA-Treated MCAO Rats and attenuates rtPA-induced hemorrhage in ischemic brain tissue. Futhermore, TWS119 activates the Wnt/ β -Catenin signaling pathway and increases the expression of Claudin-3 and ZO-1^[2].



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