

TWS119, GSK-3 β inhibitor

Catalog	Unit
TBI4495-5MG	5 mg
TBI4495-25MG	25 mg

Product Details

Formal Name: 3-[[6-(3-Aminophenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]oxy]phenol

Molecular Formula: C₁₈H₁₄N₄O₂

Formula Weight: 318.3

CAS Number: 601514-19-6

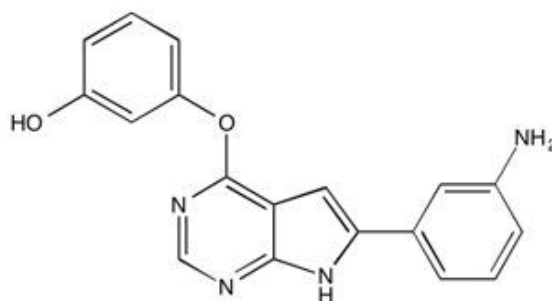
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to at least 30 mg/ml)

Storage: -20°C

Stability: $\geq$ 2 years.



Applications

GSK-3 β inhibitor

Functions

Potent inhibitor of GSK-3 β (IC₅₀ = 30 nM). At higher concentrations (400 nM), it induces neurogenesis in mouse embryonic stem cells. It maintained hepatic stellate cells in the quiescent state. TWS119 treatment increased the amount of stem cell-like memory CD8⁺ T cells, enhanced metabolic fitness of CD8⁺ T cells, and prevented CD8⁺ differentiation. It displayed neuroprotective effects in models of cerebral ischemia. TWS119 greatly increased the efficacy of NK cells against myeloma.

Application Procedures

First dissolved in DMSO (up to at least 30 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.