

Kenpaullone, GSK-3beta, CDK, KLF4 inhibitor

Catalog	Unit
TBI3028-5MG	5 mg
TBI3028-25MG	25 mg

Product Details

Formal Name: 9-Bromo-7,12-dihydro-indolo[3,2-d][1]benzazepin-6(5H)-one

Alternate Names: NSC-664704

Molecular Formula: C₁₆H₁₁BrN₂O

Formula Weight: 327.20

CAS Number: 142273-20-9

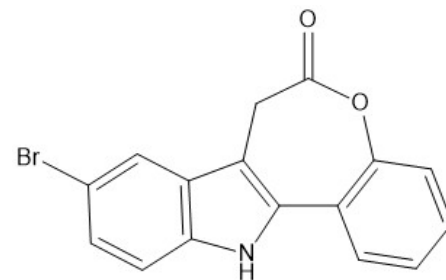
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 40 mg/ml)

Storage: RT

Stability: ≥ 2 years.



Applications

GSK-3beta, CDK, KLF4 inhibitor

Functions

Kenpaullone inhibits GSK-3β (IC₅₀=0.23 μM) as well as several cyclin-dependent kinases (CDKs), IC₅₀=0.4, 0.68 and 0.85 μM for cdk1, cdk2 and cdk5 respectively. Induces pluripotent stem cells from somatic cells and increases direct neural conversion of human fibroblasts when used with other small molecules. Inhibits Kruppel-Like Factor 4 (KLF4) reducing autoimmune arthritis in the collagen-induced arthritis mouse model.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.