

**Product Name** : GSK-3β inhibitor 1

Synonyms : —

**Cat No.** : M22450

**CAS Number** : 187325-53-7

Molecular Formula : C14H10N2O

Formula Weight : 222.24

Chemical Name : ----

GSK-3β inhibitor 1 is an inhibitor of GSK-3β( IC50 of 4.9 nM) and demonstrates high antidiabetic efficacy. GSK-3β inhibitor

1(compound 3a) inhibits GSK-3β with IC50 4.19 nM.?In a cell-based assay 3a shows no significant leucocyte toxicity at 10

**Description** : M and is moderately cytotoxic against A549 cells.?Compound 3a demonstrated high antidiabetic efficacy in obese

streptozotocin-treated rats improving glucose tolerance at a dose of 50 mg/kg body weight thus representing an interesting

lead for further optimization.

Pathway : PI3K/Akt/mTOR signaling

Target : GSK-3

Receptor : GSK-3β

Solubility : DMSO : 30 mg/mL?(134.99 mM;?Need ultrasonic)

SMILES : O=C1Nc2cccc2\C1=C\c1cccc1

**Storage** : (-20℃)

Stability : ≥ 2 years

Reference :

1. Lozinskaya NA, et al. Synthesis and biological evaluation of 3-substituted 2-oxindole derivatives as new glycogen synthase kinase  $3\beta$  inhibitors. Bioorg Med Chem. 2019 May 1;27(9):1804-1817.