

GSK-3β inhibitor 1

Cat. No.:	OB0225WX-2134
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

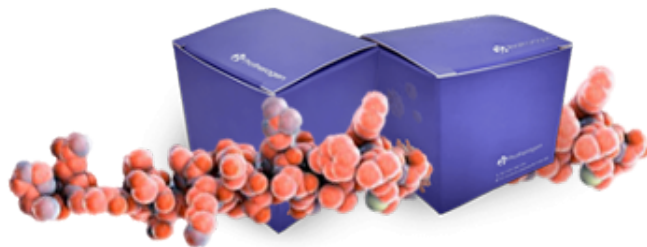
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	GSK-3β inhibitor 1 is a potent small molecule antagonist of GSK-3-beta with an IC ₅₀ of 4.9 nM, exhibiting significant antidiabetic biochemical efficacy.
Synonym	3367-88-2; GSK-3beta inhibitor 1; (E/Z)-GSK-3 A inhibitor 1; GSK-3 A inhibitor 1 ; 3-(Pyridin-2-ylmethylene)indolin-2-one; (E/Z)-GSK-3beta inhibitor 1; 3-[(2-Pyridinyl)methylene]indolin-2-one; 3-(pyridin-2-ylmethylidene)-1,3-dihydro-2H-indol-2-one; 3-(2-Pyridinylmethylene)-1,3-dihydro-2H-indol-2-one; (3Z)-3-(2-pyridinylmethylene)-1,3-dihydro-2H-indol-2-one
CAS No.	187325-53-7
Compound CID	5796182
Formula	C ₁₄ H ₁₀ N ₂
Formula Weight	222.24

Specification

Targets&IC50	GSK-3β: 4.9 nM
Relative Density	1.291 g/cm ³
IUPAC Name	(3Z)-3-(Pyridin-2-ylmethylidene)-1H-indol-2-one
InChI	InChI=1S/C14H10N2O/c17-14-12(9-10-5-3-4-8-15-10)11-6-1-2-7-13(11)16-14/h1-9H,(H,16,17)/b12-9-
InChI Key	YKQONSWBHGBDSB-XFXZXTDPSA-N
SMILES string	C1=CC=C2C(=C1)/C(=C/C3=CC=CC=N3)/C(=O)N2



Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	GSK-3 beta inhibitor 1 is applied in stem cell and neurobiology research as a specialized chemical tool to investigate the inhibition of Glycogen Synthase Kinase 3 beta and its impact on the Wnt/beta-catenin pathway.

Library Information

Target	GSK-3
Receptor	GSK-3 β
Pathways	Stem cells; PI3K/Akt/mTOR signaling
Plate Number	AOCL-28
Plate Location	c9
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	30 mg/mL; 134.99 mM