

GSK3a-IN-38

Cat. No.:	OB0225WX-2167
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 500 mg

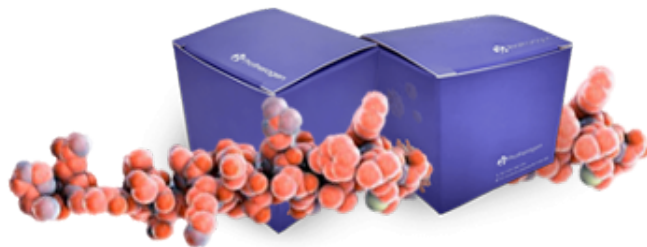
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	GSK3a-IN-38 is a novel small molecule ligand that exerts specific inhibitory effects on the alpha isoform of glycogen synthase kinase 3.
Synonym	1062138-03-7; 3,7,7-trimethyl-4-(4-pyridinyl)-2,4,6,7,8,9-hexahydro-5H-pyrazolo[3,4-b]quinolin-5-one; 3,7,7-Trimethyl-4-(pyridin-4-yl)-1,4,6,7,8,9-hexahydro-5H-pyrazolo[3,4-b]quinolin-5-one; 3,7,7-trimethyl-4-(pyridin-4-yl)-2H,4H,5H,6H,7H,8 H,9H-pyrazolo[3,4-b]quinolin-5-one; 3,7,7-trimethyl-4-pyridin-4-yl-4,6,8,9-tetra hydro-2H-pyrazolo[3,4-b]quinolin-5-one
CAS No.	1062138-03-7
Compound CID	3263182
Formula	C ₁₈ H ₂₀ N ₄
Formula Weight	308.38

Specification

Relative Density	1.28 g/cm ³
IUPAC Name	3,7,7-Trimethyl-4-pyridin-4-yl-4,6,8,9-tetrahydro-2H-pyrazolo[3,4-b]quinolin-5-one
InChI	InChI=1S/C18H20N4O/c1-10-14-15(11-4-6-19-7-5-11)16-12(20-17(14)22-21-10)8-18(2,3)9-13(16)23/h4-7,15H,8-9H2,1-3H3,(H2,20,21,22)
InChI Key	PTZKYSSXHZXQEM-UHFFFAOYSA-N
SMILES string	CC1=C2C(C3=C(CC(CC3=O)(C)C)NC2=NN1)C4=CC=NC=C4



Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	GSK3a-IN-38 is used in laboratory studies as a potent and selective GSK-3 alpha inhibitor to examine the distinct physiological functions of the alpha paralog compared to GSK-3 beta.

Library Information

Target	GSK-3
Receptor	GSK-3 α
Pathways	Stem cells; PI3K/Akt/mTOR signaling
Plate Number	AOCL-28
Plate Location	g2
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	18.33 mg/mL; 59.45 mM