



GSK3-IN-4

Cat. No.:	OB0225WX-2162
Appearance:	Solid
Purity:	≥97%
Identity:	Confirmed by NMR, and HPLC.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 200 mg

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

Product Overview

Description	GSK3-IN-4 is a dual inhibitor of the GSK-3 alpha and beta isoforms, demonstrating inhibitory potency within a range of 0.101 to 1 μM as measured by Caliper assay.
Synonym	748145-19-9; 3,7,7-trimethyl-4-(3-pyridinyl)-2,4,6,7,8,9-hexahydro-5H-pyrazolo[3,4-b]quinolin-5-one; 3,7,7-Trimethyl-4-(pyridin-3-yl)-2,4,6,7,8,9-hexahydro-5H-pyrazolo[3,4-b]quinolin-5-one; GSK3-IN-4; 3,7,7-trimethyl-4-(pyridin-3-yl)-2H,4H,5H,6H,7H,8H,9H-pyrazolo[3,4-b]quinolin-5-one; 5H-Pyrazolo[3,4-b]quinolin-5-one, 1,4,6,7,8,9-hexahydro-3,7,7-trimethyl-4-(3-pyridinyl)-; 3,7,7-trimethyl-4-pyridin-3-yl-4,6,8,9-tetrahydro-2H-pyrazolo[3,4-b]quinolin-5-one; 1,2,4,6,7,8-Hexahydro-3,7,7-trimethyl-4-(3-pyridinyl)-5H-pyrazolo[3,4-b]quinolin-5-one; 3,7,7-trimethyl-4-(pyridin-3-yl)-2H,4H,6H,8H,9H-pyrazolo[3,4-b]quinolin-5-one; 3,7,7-Trimethyl-4-(pyridin-3-yl)-1,4,6,7,8,9-hexahydro-5H-pyrazolo[3,4-b]quinolin-5-one
CAS No.	748145-19-9
Compound CID	3809721
Formula	C ₁₈ H ₂₀ N ₄
Formula Weight	308.38

Specification

Relative Density	1.28 g/cm ³
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IUPAC Name	3,7,7-Trimethyl-4-pyridin-3-yl-4,6,8,9-tetrahydro-2H-pyrazolo[3,4-b]quino lin-5-one
InChI	InChI=1S/C18H20N4O/c1-10-14-15(11-5-4-6-19-9-11)16-12(20-17(14)22-21-10)7-18(2,3)8-13(16)23/h4-6,9,15H,7-8H2,1-3H3,(H2,20,21,22)
InChI Key	GKEYTFDKZJPLCV-UHFFFAOYSA-N
SMILES string	CC1=C2C(C3=C(CC(CC3=O)(C)C)NC2=NN1)C4=CN=CC=C4
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	GSK3-IN-4 is applied in molecular biology experiments to explore the biological consequences of rapid GSK-3 inhibition on the stability of the beta-catenin destruction complex.

Library Information

Target	GSK-3
Receptor	GSK-3α; GSK-3β
Pathways	Stem cells; PI3K/Akt/mTOR signaling
Plate Number	AOCL-28
Plate Location	f7
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	50 mg/mL; 162.14 mM