GSK8612

Cat. No.:	HY-111941
CAS No.:	2361659-62-1
Molecular Formula:	C ₁₇ H ₁₇ BrF ₃ N ₇ O ₂ S
Molecular Weight:	520.33
Target:	IKK
Pathway:	NF-кВ
Storage:	-20°C, protect from light * In solvent : -80°C, 2 years; -20°C, 1 year (protect from light)

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.9219 mL	9.6093 mL	19.2186 mL
		5 mM	0.3844 mL	1.9219 mL	3.8437 mL
		10 mM	0.1922 mL	0.9609 mL	1.9219 mL
	Please refer to the sol	ubility information to select the app	propriate solvent.		
/ivo		ne by one: 10% DMSO >> 40% PE(g/mL (4.00 mM); Clear solution	G300 >> 5% Tween-80) >> 45% saline	
		ne by one: 10% DMSO >> 90% (20 g/mL (4.00 mM); Clear solution	% SBE-β-CD in saline)		
		ne by one: 10% DMSO >> 90% cor g/mL (4.00 mM); Clear solution	n oil		

GSK8612 is a highly selective and potent Tank-binding Kinase-1 (TBK1) inhibitor, with a pIC₅₀ of 6.8 for recombinant TBK1^[1].

GSK8612 inhibits toll-like receptor (TLR)3-induced IRF3 phosphorylation in Ramos cells and type I IFN secretion in primary human mononuclear cells. In THP1 cells, GSK8612 is able to inhibit secretion of IFNß in response to dsDNA and cGAMP, the

Proteins

Inhibitors

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In Vitro

BIOLOGICAL ACTIVITY

TBK1 6.8 (pIC₅₀)

natural ligand for STING^[1].

Description

IC₅₀ & Target

0, 1 H₂N⁵, 0

~<u>N</u>_

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nature. 2023 Mar;615(7950):158-167.
- Protein Cell. 2021 Apr;12(4):261-278.
- Autophagy. 2021 Aug 26;1-18.
- PLoS Biol. 2023 Mar 17;21(3):e3002039.
- Cell Death Dis. 2021 Jul 14;12(7):699.

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REFERENCES

[1]. Thomson DW, et al. Discovery of GSK8612, a Highly Selective and Potent TBK1 Inhibitor. ACS Med Chem Lett. 2019 Mar 11;10(5):780-785.

Caution: Product has not been fully validated for medical applications. For research use only.

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