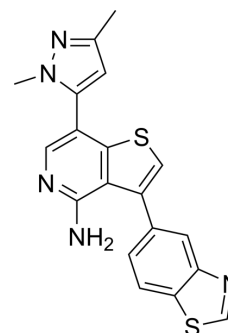


GSK-843

Cat. No.:	HY-125402		
CAS No.:	1601496-05-2		
Molecular Formula:	C ₁₉ H ₁₅ N ₅ S ₂		
Molecular Weight:	377.49		
Target:	RIP kinase; Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (132.45 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.6491 mL	13.2454 mL	26.4908 mL
			5 mM	0.5298 mL	2.6491 mL	5.2982 mL
			10 mM	0.2649 mL	1.3245 mL	2.6491 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 4.8 mg/mL (12.72 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.51 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	GSK-843 (GSK'843) is a receptor-interacting protein kinase 3 (RIP3 or RIPK3) inhibitor, which binds RIP3 kinase domain with an IC ₅₀ of 8.6 nM, and inhibits kinase activity with an IC ₅₀ of 6.5 nM. GSK-843 can be used for the research of inflammation ^[1] [2].
IC ₅₀ & Target	RIPK3
In Vitro	GSK-843 (3-10 μM; 18 h) induces apoptosis ^[1] . ?GSK-843 (0.3-3 μM; 18 h) suppresses TNF-induced death and virus-induced cell necrosis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]

Cell Line:	SVEC, L929, 3T3SA and mouse embryo fibroblast (MEF)
Concentration:	3 and 10 μ M
Incubation Time:	18 hours
Result:	Decreased the cell viability of SVEC, L929, 3T3SA and MEF cells, and induced caspase activation followed by apoptotic cell death.
Cell Viability Assay ^[2]	
Cell Line:	3T3-SA and SVEC4-10 cells
Concentration:	0.3, 1 and 3 μ M
Incubation Time:	18 hours
Result:	Dose-dependently suppressed TNF-induced death and virus-induced necrosis to improved cell viability.

CUSTOMER VALIDATION

- Cancer Lett. 2023 May 5;216208.
- Cell Death Discov. 2022 Feb 26;8(1):88.
- Mol Immunol. 2021 Jan;129:86-93.

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REFERENCES

- [1]. Kaiser WJ, et al. Toll-like receptor 3-mediated necrosis via TRIF, RIP3, and MLKL. J Biol Chem. 2013 Oct 25;288(43):31268-79.
- [2]. Mandal P, et al. RIP3 induces apoptosis independent of pronecrotic kinase activity. Mol Cell. 2014 Nov 20;56(4):481-95.

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

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