GSK840

Cat. No.:	HY-104021		
CAS No.:	2361146-30	-5	
Molecular Formula:	$C_{21}H_{23}N_{3}O_{3}$		
Molecular Weight:	365.43		
Target:	RIP kinase		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7365 mL	13.6825 mL	27.3650 mL
		5 mM	0.5473 mL	2.7365 mL	5.4730 mL
		10 mM	0.2737 mL	1.3683 mL	2.7365 mL
	Please refer to the so	lubility information to select the ap	propriate solvent.		
In Vivo		one by one: 10% DMSO >> 40% PE(ng/mL (7.53 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	
		one by one: 10% DMSO >> 90% (20 ng/mL (7.53 mM); Clear solution	% SBE-β-CD in saline)		
		one by one: 10% DMSO >> 90% cor ng/mL (7.53 mM); Clear solution	rn oil		

BIOLOGICAL ACTIV	
Description	GSK840 (GSK'840) is a receptor-interacting protein kinase 3 (RIP3 or RIPK3) inhibitor, which binds RIP3 kinase domain with an IC ₅₀ of 0.3 nM ^[1] .
IC ₅₀ & Target	IC50: 0.3 nM (RIP3) ^[1]
In Vitro	GSK840 (GSK'840) (0.01-3 μM; 24 hours) blocks TNF-induced necroptosis in a concentration-dependent manner ^[1] . GSK840 binds the kinase domain and inhibits kinase activity with high specificity, targeting a broader range of pro-necrotic stimuli than can be achieved with RIP1 kinase inhibitors ^[1] .

Product Data Sheet

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MCE has not independe Cell Viability Assay ^[1]	ntly confirmed the accuracy of these methods. They are for reference only.
Cell Line:	Human HT-29 cells (TNF 10 ng/ml + zVAD-fmk 20 μM + SMAC007 100 nM)
Concentration:	0.01-3 μM
Incubation Time:	24 hours
Result:	Blocked TNF-induced necroptosis in a concentration-dependent manner.

CUSTOMER VALIDATION

• Cell Death Discov. 2022 Feb 26;8(1):88.

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REFERENCES

[1]. 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.