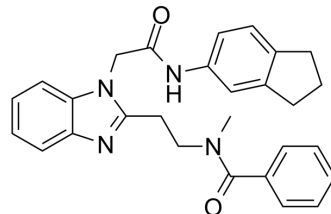


GSK717

Cat. No.:	HY-136555		
CAS No.:	1595278-21-9		
Molecular Formula:	C ₂₈ H ₂₈ N ₄ O ₂		
Molecular Weight:	452.55		
Target:	NOD-like Receptor (NLR)		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (552.43 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2097 mL	11.0485 mL	22.0970 mL
		5 mM	0.4419 mL	2.2097 mL	4.4194 mL
10 mM		0.2210 mL	1.1049 mL	2.2097 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.60 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.60 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.60 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	GSK717 is a potent, selective NOD2 (nucleotide-binding oligomerization domain 2) inhibitor. GSK717 inhibits muramyl dipeptide (MDP)-induced NOD2-mediated signaling, with an IC ₅₀ of 400 nM for MDP-stimulated IL-8 secretion in HEK293/hNOD2 cells ^[1] .
In Vitro	GSK717 blocks synergy between NOD2 and TLR2. GSK717 does not affect NOD1, TNFR1 and TLR2-mediated responses. GSK717 (5 μM) inhibits the release of IL-8, IL-6, TNFα and IL-1β in primary human monocytes stimulated with MDP ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Host Microbe. 2022 Aug 25;S1931-3128(22)00395-X.
- Drug Resist Updat. 2023 Aug 21;71:101005.
- J Exp Clin Cancer Res. 2023 Sep 9;42(1):236.

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REFERENCES

[1]. Rickard DJ, et al. Identification of benzimidazole diamides as selective inhibitors of the nucleotide-binding oligomerization domain 2 (NOD2) signaling pathway. PLoS One. 2013;8(8):e69619. Published 2013 Aug 1.

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

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