GSK2983559 active metabolite

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Cat. No.:	HY-19764		
CAS No.:	1423186-80-4		
Molecular Formula:	$C_{21}H_{22}N_4O_4S_2$		
Molecular Weight:	458.55		
Target:	RIP kinase		
Pathway:	Apoptosis		
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 : 25 mg/mL (54.52 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.1808 mL	10.9039 mL	21.8079 mL	
		5 mM	0.4362 mL	2.1808 mL	4.3616 mL	
		10 mM	0.2181 mL	1.0904 mL	2.1808 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.45 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution 					

BIOLOGICAL ACTIVITY				
Description	GSK2983559 active metabolite is an active metabolite of GSK2983559. GSK2983559 active metabolite is a receptor interacting protein-2 (RIP2) kinase inhibitor extracted from patent WO/2014043446 A1, compound example 1.			
IC ₅₀ & Target	RIPK2			
In Vitro	GSK2983559 active metabolite is a novel prodrug of a quinazolyl amine that inhibits RIP2 kinase. Receptor interacting protein-2 (RIP2) kinase, which is also referred to as CARD3, RICK, CARDIAK, or RIPK2, is a TKL family serine/threonine protein kinase involved in innate immune signaling. RIP2 kinase is composed of an N-terminal kinase domain and a C-terminal caspase-recruitment domain (CARD) linked via an intermediate (IM) region. The CARD domain of RIP2 kinase mediates interaction with other CARD-containing proteins, such as NODI and NOD2. NODI and NOD2 are cytoplasmic receptors which			

Product Data Sheet

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play a key role in innate immune surveillance. They recognize both gram positive and gram negative bacterial pathogens and are activated by specific peptidoglycan motifs, diaminopimelic acid (i.e., DAP) and muramyl dipeptide^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL	
TROTOCOL	
Animal Administration ^[1]	 Rats^[1] Rats are orally pre-dosed with RIP2 kinase inhibitor 1, at a dose of 2 mg/kg (8 rats) and with Prednisolone (8 rats, used as a positive control), followed by dosing with L18-MDP (50 µg/rat) 0.25 h/min after pre-dosing. Combined cytokine levels (IL8, TNFa, IL6 and IL-Iβ) in whole blood samples taken from the rats in this study are measured using an antibody based detection. The combined cytokine response is calculated as the averaged response for the 4 cytokines measured relative to the response observed in the vehicle-treated mice, and are depicted as the mean±standard error of the mean (n=8 rats/group). MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• Rheumatology. 2022 Oct 29;keac621.

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REFERENCES

[1]. Linda N. Casillas, et al. Prodrugs of amino quinazoline kinase inhibitor. PCT Int. Appl. (2014), WO 2014043446 A1 20140320.

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

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