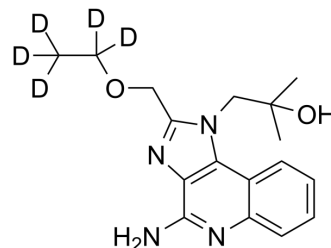


Resiquimod-d5

Cat. No.:	HY-13740S		
CAS No.:	2252319-44-9		
Molecular Formula:	C ₁₇ H ₁₇ D ₅ N ₄ O ₂		
Molecular Weight:	319.41		
Target:	Toll-like Receptor (TLR); HCV		
Pathway:	Immunology/Inflammation; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (156.54 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.1308 mL	15.6539 mL	31.3077 mL
		5 mM	0.6262 mL	3.1308 mL	6.2615 mL
10 mM		0.3131 mL	1.5654 mL	3.1308 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.83 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.83 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Resiquimod-d5 (R848-d5) is deuterium labeled Resiquimod. Resiquimod is a Toll-like receptor 7 and 8 (TLR7/TLR8) agonist that induces the upregulation of cytokines such as TNF-α, IL-6 and IFN-α ^{[1][2]} .
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REFERENCES

[1]. Sachan S, et al. Adjuvant potential of resiquimod with inactivated Newcastle disease vaccine and its mechanism of action in chicken. *Vaccine*. 2015 Aug 26;33(36):4526-32.

[2]. Zhou ZX, et al. Immune effects of R848: evidences that suggest an essential role of TLR7/8-induced, Myd88- and NF- κ B-dependent signaling in the antiviral immunity of Japanese flounder (*Paralichthys olivaceus*). *Dev Comp Immunol*. 2015 Mar;49(1):113-20.

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

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