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Zuschläge

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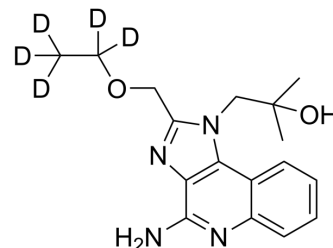
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Resiquimod-d₅

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; Isotope-Labeled Compounds		
Pathway:	Immunology/Inflammation; Anti-infection; Others		
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)
H₂O : 0.1 mg/mL (0.31 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

- 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
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (3.91 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (3.91 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Resiquimod-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]}.

IC₅₀ & Target

TLR7 TLR8

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as

tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Front Pharmacol. 2023 Dec 6;14:1320524.

See more customer validations on www.MedChemExpress.com

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

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