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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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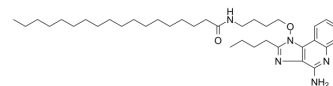
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Telratolimod

Cat. No.:	HY-109104
CAS No.:	1359993-59-1
Molecular Formula:	C ₃₆ H ₅₉ N ₅ O ₂
Molecular Weight:	593.89
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
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 : 62.5 mg/mL (105.24 mM; Need ultrasonic)
 Ethanol : 50 mg/mL (84.19 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.6838 mL	8.4191 mL	16.8381 mL
	5 mM		0.3368 mL	1.6838 mL	3.3676 mL
	10 mM		0.1684 mL	0.8419 mL	1.6838 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.08 mg/mL (3.50 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (3.50 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.50 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Telratolimod (MEDI9197) is a potent toll like receptors 7/8 (TLR7/8) agonist, with antitumor activity^[1].

IC₅₀ & Target

TLR7

TLR8

In Vitro	Telratolimod (3M-052) is a toll like receptors 7/8 (TLR7/8) agonist, with antitumor activity^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Telratolimod (50 µg) inhibits the tumor volume, and more potently blocks tumor growth in combination with CpG ODN in BALB/c mice bearing CT26 colon carcinoma cells. Telratolimod (100 µg) plus 200 µg of CpG ODN slows tumor growth and prolongs survival of mice bearing large tumors^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- ACS Cent Sci. October 7, 2022.
- ACS Nano. 2022 Aug 3.
- Adv Sci (Weinh). 2022 Dec 16;e2206001.
- JCI Insight. 2022 May 17;e146608.
- Biochem Bioph Res Co. 2023 Feb 16.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Zhao BG, et al. Combination therapy targeting toll like receptors 7, 8 and 9 eliminates large established tumors. J Immunother Cancer. 2014 May 13;2:12.

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

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