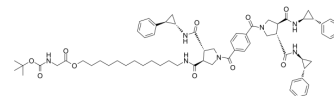


Diprovocim-X

Cat. No.:	HY-150501		
Molecular Formula:	C ₆₆ H ₈₃ N ₇ O ₁₀		
Molecular Weight:	1134.41		
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 : 50 mg/mL (44.08 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.8815 mL	4.4076 mL	8.8152 mL
	5 mM	0.1763 mL	0.8815 mL	1.7630 mL
	10 mM	0.0882 mL	0.4408 mL	0.8815 mL

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

BIOLOGICAL ACTIVITY

Description

Diprovocim-X (compound 35) is a potent TLR1/TLR2 (toll-like receptor 1/2) agonist, with EC₅₀ values of 0.14 and 0.75 nM for hTLR1/TLR2 and mTLR1/TLR2, respectively. Diprovocim-X is a potent adjuvant in vivo in mice, and serves to stimulate the adaptive immune response^[1].

IC₅₀ & Target

TLR1	TLR2
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In Vitro

Diprovocim-X stimulates release of TNF-α from (human) differentiated THP-1 cells proves dependent on both TLR2 and TLR1, but notably independent of TLR6^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang MH, et al. Next-Generation Diprovocims with Potent Human and Murine TLR1/TLR2 Agonist Activity That Activate the Innate and Adaptive Immune Response. J Med Chem. 2022 Jun 29.

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

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