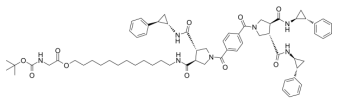
Diprovocim-X

Cat. No.:	HY-150501
CAS No.:	3005274-77-8
Molecular Formula:	$C_{66}H_{83}N_7O_{10}$
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)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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 EC_{50} 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].

IC_{50} & Target	TLR1	TLR2

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

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

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