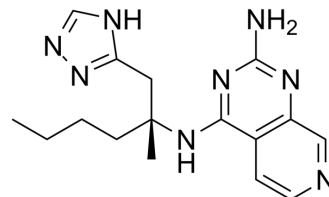


TLR8 agonist 2

Cat. No.:	HY-141454
CAS No.:	2412937-64-3
Molecular Formula:	C ₁₆ H ₂₂ N ₈
Molecular Weight:	326.4
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TLR8 agonist 2 is a potent and selective TLR8 agonist with an EC ₅₀ of 3 nM for human TLR8. TLR8 agonist 2 shows less active against human TLR7 (EC ₅₀ of 33.33 μM) ^[1] .	
IC₅₀ & Target	TLR8 3 nM (EC ₅₀)	TLR7 33.33 μM (EC ₅₀)
In Vitro	TLR8 agonist 2 (Example 1) increases the levels of TNF-α, IL-12p40, IFN-γ, and IFN-α with EC ₅₀ values 105 nM, 26 nM, 29 nM, and 2800 nM, respectively, in human peripheral blood mononuclear cells (hPBMC) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	The pharmacokinetic related parameters of TLR8 agonist 2 (Example 1) in mice administered with the intravenous administration of 1 mg/kg and the oral administration of 5 mg/kg are detected. The T _{1/2} of TLR8 agonist 2 are 0.25 h (1 mg/kg i.v.) and 0.5 h (5 mg/kg p.o.), the AUC _{last} are 450 ng/mL*hr (i.v.) and 624 ng/mL*hr (p.o.). And for oral administration, the bioavailability (%F) is 27.7% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Zhe Cai, et al. Tlr8 agonist. WO2020057604A1.

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

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