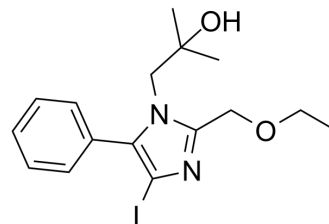


CU-CPD107

Cat. No.:	HY-147310
CAS No.:	2573912-32-8
Molecular Formula:	C ₁₆ H ₂₁ IN ₂ O ₂
Molecular Weight:	400.25
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	CU-CPD107 is a potent, selective toll-like receptor 8 (TLR 8) agonist. CU-CPD107 inhibits TLR8 signaling. CU-CPD107 converts to synergistic agonist activities in the presence of ssRNA and induces TLR8 signaling. CU-CPD107 inhibits proinflammatory factor expression and avoids immune responses in the presence of ssRNA ^[1] .
In Vitro	CU-CPD107 (HEK-Blue hTLR8 cells) inhibits R848-induced signaling with an IC ₅₀ value of 13.7 μM ^[1] . CU-CPD107 (0-100 μM; HEK-Blue hTLR8 cells) converts to an agonist in the presence of ssRNA ^[1] . CU-CPD107 (100 μM; HEK-Blue hTLR8 cells) decreases IFN-β, TNF-α, IL-1β, IL-6 and IL-8 mRNA expression levels ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang Y, et, al. Tetrasubstituted imidazoles as incognito Toll-like receptor 8 a(nta)gonists. Nat Commun. 2021 Jul 16;12(1):4351.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA