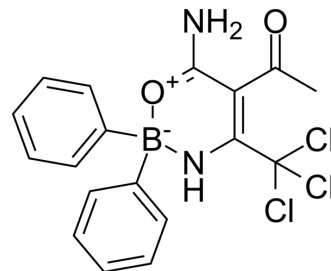


NLRP3-IN-NBC6

Cat. No.:	HY-131040		
CAS No.:	2068818-02-8		
Molecular Formula:	C ₁₈ H ₁₆ BCl ₃ N ₂ O ₂		
Molecular Weight:	409.5		
Target:	NOD-like Receptor (NLR)		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	NLRP3-IN-NBC6 is a potent, selective NLRP3 inflammasome inhibitor (IC ₅₀ = 574 nM) that acts independently of Ca ²⁺ . NLRP3-IN-NBC6 inhibits Nigericin (HY-127019)-induced inflammasome activation in THP-1 cells and Imiquimod (HY-B0180)-induced IL-1β release from LPS-primed bone marrow-derived macrophages (BMDMs) ^[1] .
IC₅₀ & Target	NLRP3 574 nM (IC ₅₀)
In Vitro	In LPS-primed primary BMDMs, NLRP3-IN-NBC6 (10 μM; 15 minutes) inhibits Imiquimod-induced IL-1β release. NLRP3-IN-NBC6 completely inhibits NLRP3-dependent IL-1β release in neutrophils (neutrophils were isolated from WT and NLRP3 KO murine bone marrow and primed with LPS followed by Nigericin treatment in the presence of 10 μM NLRP3-IN-NBC6) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Baldwin AG, et al. Boron-Based Inhibitors of the NLRP3 Inflammasome. Cell Chem Biol. 2017;24(11):1321-1335.e5.

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