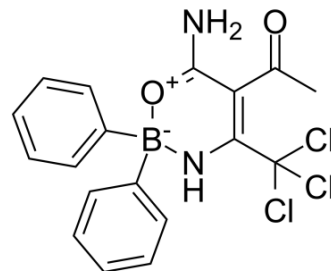


## NLRP3-IN-NBC6

Cat. No.:	HY-131040
CAS No.:	2068818-02-8
Molecular Formula:	C <sub>18</sub> H <sub>16</sub> BCl <sub>3</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	409.5
Target:	NOD-like Receptor (NLR)
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	NLRP3-IN-NBC6 is a potent, selective NLRP3 inflammasome inhibitor (IC <sub>50</sub> = 574 nM) that acts independently of Ca <sup>2+</sup> . 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) <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	NLRP3 574 nM (IC <sub>50</sub> )
<b>In Vitro</b>	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) <sup>[1]</sup> . 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.**

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