NDT-30805

Cat. No.: HY-150965

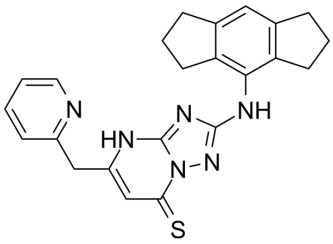
Molecular Formula: $C_{23}H_{22}N_6S$

Molecular Weight: 414.53

Target: NOD-like Receptor (NLR)

Pathway: Immunology/Inflammation

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NDT-30805 is a selective NLRP3 inflammasome inhibitor. NDT-30805 is a triazolopyrimidinone derivative and inhibits IL-1β release in PBMCs with an IC_{50} of 0.013 μM. NDT-30805 can be used for the research of inflammation and innate immunity[1].

IC_{50} & Target	NLRP3	NLRP3 inflammasome

In Vitro

NDT-30805 (0-2 μM; 30 min) inhibits IL-1β release in PBMCs[1].

NDT-30805 (0-2 μM; 30 min) inhibits ASC speck formation in THP1-ASC-GFP cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	Human PBMCs
Concentration:	0-2 μM
Incubation Time:	30 min
Result:	Inhibited IL-1β release in PBMCs with an IC_{50} of 0.013 μM.

Cell Viability Assay[1]

Cell Line:	THP1-ASC-GFP cells
Concentration:	0-2 μM
Incubation Time:	30 min
Result:	Inhibited ASC which is a component of NLRP3 inflammasome in PBMCs with an IC_{50} of 0.034 μM.

REFERENCES

[1]. David H, et al. Discovery and Optimization of Triazolopyrimidinone Derivatives as Selective NLRP3 Inflammasome Inhibitors. ACS Medicinal Chemistry Letters. 2022.

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

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