NOD1 antagonist-1

Cat. No.: HY-163274

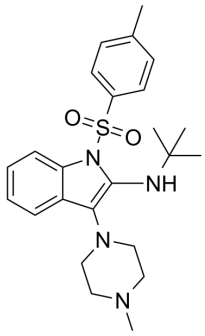
Molecular Formula: $C_{24}H_{32}N_4O_2S$

Molecular Weight: 440.6

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	NOD1 antagonist-1 (compound 37) exhibits an antagonistic activity towards NOD1 and a weak NOD1/NOD2 selectivity, with IC_{50}s of 9.18 μM and 20.8 μM, respectively[1].

IC_{50} & Target	NOD1	NOD2
	9.18 μM (IC_{50})	20.8 μM (IC_{50})

In Vitro

NOD1 antagonist-1 (25 μM, 1 h) inhibits the NF-kB transcriptional activation in HEK-Blue cells with low cytotoxicity (25 μM, 18 h)[1].

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

Cell Cytotoxicity Assay[1]

Cell Line:	HEK-Blue
Concentration:	25 μM
Incubation Time:	18 h
Result:	Maintained a residual metabolic activity of over 80%.

REFERENCES

[1]. Russo C,et al., Discovery of 2,3-Diaminoindole Derivatives as a Novel Class of NOD Antagonists. J Med Chem. 2024 Feb 1.

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