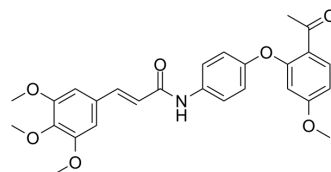


NF-κB/MAPK-IN-1

Cat. No.:	HY-147972		
CAS No.:	2413940-56-2		
Molecular Formula:	C ₂₇ H ₂₇ NO ₇		
Molecular Weight:	477.51		
Target:	NF-κB; p38 MAPK; NO Synthase; COX		
Pathway:	NF-κB; MAPK/ERK Pathway; Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (209.42 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.0942 mL	10.4710 mL	20.9420 mL
5 mM	0.4188 mL	2.0942 mL	4.1884 mL
10 mM	0.2094 mL	1.0471 mL	2.0942 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NF-κB/MAPK-IN-1 (compound 11a) is a potent inhibitor of NF-κB and MAPK pathway. NF-κB/MAPK-IN-1 shows inhibitory activity against NO production, with an IC₅₀ of 6.96 μM. NF-κB/MAPK-IN-1 suppresses LPS-induced iNOS, COX-2, ERK and P38 signaling activation. NF-κB/MAPK-IN-1 can prevent LPS induced inflammatory response in macrophages. NF-κB/MAPK-IN-1 can be used for rheumatoid arthritis (RA) research^[1].

IC₅₀ & Target

NF-κB	p38	COX-2
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REFERENCES

[1]. Hu YS, et al. Novel paeonol derivatives: Design, synthesis and anti-inflammatory activity in vitro and in vivo. Bioorg Chem. 2020 May;98:103735.

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

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