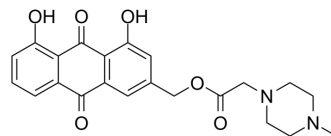


Akt/NF-κB/JNK-IN-1

Cat. No.:	HY-147836
Molecular Formula:	C ₂₂ H ₂₂ N ₂ O ₆
Molecular Weight:	410.42
Target:	Akt; NF-κB; JNK; TNF Receptor; COX
Pathway:	PI3K/Akt/mTOR; NF-κB; MAPK/ERK Pathway; Apoptosis; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Akt/NF-κB/JNK-IN-1 (Compound 2i) is an inhibitor of Akt, NF-κB and JNK signaling pathways. Akt/NF-κB/JNK-IN-1 inhibits nitric oxide production with an IC ₅₀ of 3.15 μM. Akt/NF-κB/JNK-IN-1 shows anti-inflammatory activities ^[1] .	
IC₅₀ & Target	TNF-α	COX-2
In Vitro	Akt/NF-κB/JNK-IN-1 (Compound 2i) (0-50 μM) significantly reduces the levels of TNF-α, IL-1β, IL-6 and PGE2 and markedly downregulates the expression levels of iNOS and COX-2 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Shang H, et al. Design, synthesis and anti-inflammatory evaluation of aloe-emodin derivatives as potential modulators of Akt, NF-κB and JNK signaling pathways. Eur J Med Chem. 2022 Aug 5;238:114511.

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

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