

Akt/NF- κ B/MAPK-IN-1

Chemical Properties

CAS No. :

Formula: C38H56N2O4

Molecular Weight: 604.86

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Akt/NF- κ B/MAPK-IN-1 (compound 2m) is a potent, orally active inhibitor of NO with an IC50 of 7.70 μ M and low toxicity, exhibiting anti-inflammatory effects by blocking the Akt/NF- κ B and MAPK signaling pathways [1].
Targets(IC50)	ERK,NO Synthase,COX,Interleukin,JNK,p38 MAPK,TNF
In vitro	Akt/NF- κ B/MAPK-IN-1 (compound 2m) at concentrations of 0 to 20 μ M over 24 hours significantly reduced TNF- α , IL-1 β , IL-6, and PGE2 levels, and downregulated iNOS and COX-2 expression in LPS (10 ng/mL)-stimulated RAW264.7 cells. Additionally, it inhibited p38, ERK, and JNK phosphorylation in LPS-induced RAW264.7 cells [1].
In vivo	Akt/NF- κ B/MAPK-IN-1 (compound 2m), administered orally at 10-20 mg/kg for 7 consecutive days, alleviates LPS-induced inflammatory disease in mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6533 mL	8.2664 mL	16.5328 mL
5 mM	0.3307 mL	1.6533 mL	3.3066 mL
10 mM	0.1653 mL	0.8266 mL	1.6533 mL
50 mM	0.0331 mL	0.1653 mL	0.3307 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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