

## HMGB1-IN-1

## Chemical Properties

CAS No. :

Formula: C57H75N3O15

Molecular Weight: 1042.22

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	HMGB1-IN-1 (compound 6) exhibits potent inhibition of NO production in RAW264.7 cells, with an IC50 of 15.9 ± 0.6 μM, and effectively disrupts the HMGB1/NF-κB/NLRP3 signaling pathway, demonstrating promising anti-inflammatory and anti-sepsis properties, particularly in the context of renal injury [1].
Targets(IC50)	Others,NOD-like Receptor (NLR),Interleukin,TNF
In vitro	HMGB1-IN-1 (compound 6) (0-30 μM, 0-48 h) reduces IL-1β and TNF-α levels in RAW264.7 and HK-2 cells and demonstrates dose-dependent downregulation of NLRP3, P-NF-κB p65, and HMGB1 in activated HK-2 cells [1].
In vivo	HMGB1-IN-1 (compound 6), when administered intraperitoneally at doses ranging from 15 to 30 mg/kg, demonstrates potent anti-inflammatory activity [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9595 mL	4.7975 mL	9.5949 mL
5 mM	0.1919 mL	0.9595 mL	1.919 mL
10 mM	0.0959 mL	0.4797 mL	0.9595 mL
50 mM	0.0192 mL	0.0959 mL	0.1919 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.

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