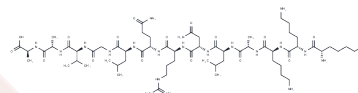


MK2-IN-5

## Chemical Properties

CAS No. : 474713-20-7  
 Formula: C<sub>61</sub>H<sub>113</sub>N<sub>2</sub>O<sub>16</sub>  
 Molecular Weight: 1396.68  
 Storage: Keep away from moisture  
 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	MK2-IN-5, a pseudosubstrate of Mk2 with an inhibition constant ( $K_i$ ) of 8 $\mu$ M, selectively targets the protein interaction domain of the MAPK pathway and inhibits the phosphorylation of HSP25 and HSP27 [1] [2] [3].
Targets(IC50)	ERK,HSP,MAPK,JNK,p38 MAPK
In vitro	MK2-IN-5 at concentrations of 5-10 nM for 2 hours inhibits the expression of connective tissue growth factor and type I collagen induced by TGF- $\beta$ 1 in human scar keloid fibroblasts [3].
In vivo	MK2-IN-5 (2 mg/kg, intraperitoneal injection, single dose) reduces HSP25 phosphorylation in ventilator-induced lung injury models [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.716 mL	3.5799 mL	7.1598 mL
5 mM	0.1432 mL	0.716 mL	1.432 mL
10 mM	0.0716 mL	0.358 mL	0.716 mL
50 mM	0.0143 mL	0.0716 mL	0.1432 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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