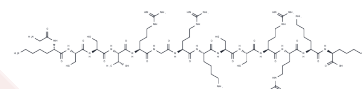


## SAP15

## Chemical Properties

CAS No. :	1403753-45-6
Formula:	C <sub>68</sub> H <sub>131</sub> N <sub>31</sub> O <sub>18</sub> S <sub>3</sub>
Molecular Weight:	1767.16
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	SAP15 (Synthetic anti-inflammatory peptide 15) is a synthetic peptide composed of 15 amino acids, derived from human beta-defensin 3, with the ability to penetrate cells and mitigate intracellular inflammation. It achieves its anti-inflammatory effects by blocking the phosphorylation of HDAC5, which in turn reduces NF-κB p65 phosphorylation. In macrophages stimulated with LPS, SAP15 suppresses the phosphorylation of both HDAC5 and NF-κB p65, demonstrating potent anti-inflammatory actions. Furthermore, treatment with SAP15 in LPS-induced chondrocytes elevates aggrecan and type II collagen levels while reducing osteocalcin expression. This peptide is valuable for exploring inflammation regulation and the development of anti-inflammatory therapies in biomaterials.
Targets(IC50)	NF-κB,HDAC

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5659 mL	2.8294 mL	5.6588 mL
5 mM	0.1132 mL	0.5659 mL	1.1318 mL
10 mM	0.0566 mL	0.2829 mL	0.5659 mL
50 mM	0.0113 mL	0.0566 mL	0.1132 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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