

## type II collagen fragment

## Chemical Properties

CAS No. :

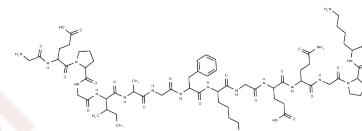
Formula: C<sub>65</sub>H<sub>102</sub>N<sub>18</sub>O<sub>21</sub>

Molecular Weight: 1471.61

Keep away from moisture

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	Type II collagen is composed of a triple helix of three identical $\alpha$ chains. These molecules associate to form a fibril that is stabilized by intermolecular crosslinks <sup>1</sup> . Damage to the fibrillar meshwork, made up of primarily type II collagen (z 90-95%), maybe a critical event in the pathology of many arthritides, due in part to the very slow rate of collagen turnover within the cartilage <sup>2</sup> .
Targets(IC50)	Others
In vitro	Type II collagen and aggrecan (a large, aggregating proteoglycan) are the two major components of the extracellular matrix of cartilage. The collagen, which is present in a fibrillar form, provides tensile strength whereas the aggrecan is responsible for compressive stiffness of cartilage <sup>3-5</sup> . Early damage to type II collagen is predominantly pericellular/ territorial suggests that in the majority of cases collagen damage was mediated by the chondrocyte.

## Solubility Information

Solubility	DMSO: $\geq 147.1$ mg/mL, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.6795 mL	3.3976 mL	6.7953 mL
5 mM	0.1359 mL	0.6795 mL	1.3591 mL
10 mM	0.068 mL	0.3398 mL	0.6795 mL
50 mM	0.0136 mL	0.068 mL	0.1359 mL

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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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