

type II collagen fragment

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | TP2301 |
| Formula: | C ₆₅ H ₁₀₂ N ₁₈ O ₂₁ |
| Molecular Weight: | 1471.61 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

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|-------------|--|
| Description | Type II collagen is composed of a triple helix of three identical α chains. These molecules associate to form a fibril that is stabilized by intermolecular crosslinks ¹ . 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 ² . |
| 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 ³⁻⁵ . 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

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| Solubility | DMSO: ≥ 147.1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|----------|----------|
| 1 mM | 0.68 mL | 3.398 mL | 6.795 mL |
| 5 mM | 0.136 mL | 0.68 mL | 1.359 mL |
| 10 mM | 0.068 mL | 0.34 mL | 0.68 mL |
| 50 mM | 0.014 mL | 0.068 mL | 0.136 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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