

## Collagenase Type I

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture, Store at low temperature  
 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	Collagenase Type I is a proteolytic enzyme that primarily targets collagen and is able to break down peptide bonds in collagen. Collagenase is used as a potential therapeutic option to break up the herniated disc material, thereby reducing compression of nearby nerves. Collagenase may aid in the breakdown and reorganization of excessive scar tissue, potentially improving tissue function and appearance. Collagenase has the potential to treat intervertebral disc herniation, keloid, fat mass, lipoma, as well as Peyronie's disease and palmar fibromatosis.
Targets(IC50)	MMP
In vivo	<b>METHODS:</b> To investigate the effect of Collagenase Type II (similar to Collagenase Type I) on the cornea, the corneas of New Zealand white rabbits were treated with Collagenase Type II (200 µL at 5 mg/mL) for 30 minutes. <b>RESULTS:</b> Collagenase Type I increases the curvature and thinning of the cornea and reduces the elastic modulus, thereby simulating the pathological characteristics of Keratoconus (KC). [1]

## Solubility Information

Solubility	H2O: 50 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

- Qiao J, et al. A rabbit model of corneal Ectasia generated by treatment with collagenase type II. BMC Ophthalmol. 2018;18(1):94.
- Qiao J, et al. A rabbit model of corneal Ectasia generated by treatment with collagenase type II. BMC Ophthalmol. 2018;18(1):94.

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