

For Research Use Only

Recombinant Human MMP-3 protein (His Tag)



Catalog Number: Eg0382

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human MMP-3 protein Tyr18-Cys477 (Accession# P08254) with a His tag at the C-terminus.

GeneID:
4314

Accession:
P08254

Predicted Molecular Mass:
56 kDa

SDS-PAGE:
55-65 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

MMP-3 (matrix metalloproteinase 3), also named as Stromelysin 1 or STR1, is a member of matrix metalloproteinase (MMP) family. The MMP family of enzymes is comprised of critically important extracellular matrix remodeling proteases whose activity has been implicated in normal embryogenesis and tissue remodeling and in many diseases such as arthritis, cancer, periodontitis, glomerulonephritis, encephalomyelitis, atherosclerosis and tissue ulceration. These proteases have come to represent important therapeutic and diagnostic targets for the treatment and detection of human cancers. MMP-3 is secreted from the cells as a proenzyme. The proenzyme has been shown to stimulate plasminogen activation. The active MMP-3 is capable of cleaving types III, IV, IX and X collagen, aggrecan, fibronectin, laminin, IGFBP-3, serpins, and IL-1 β .

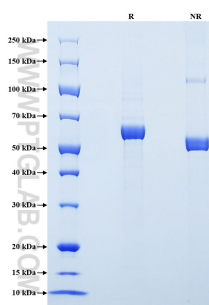
References

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2. Nagase H. et al. (1994) Contributions to Nephrology. 107:85.
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4. Pytliak M. et al. (2012) Onkologie. 35(1-2):49-53.
5. Begoña Arza. et al. (2000). Febs Journal. 267(21):6378.
6. Fan. et al. (2011) International Journal of Molecular Medicine. 27(4).

Synonyms

MMP3, EC:3.4.24.17, Matrix metalloproteinase-3, MMP 3, MMP-3

Selected Validation Data



Purity of Recombinant Human MMP-3 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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