

For Research Use Only

Recombinant Mouse MMP8 protein (rFc Tag)



Catalog Number: Eg3161

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse MMP8 protein Phe21-Ser465 (Accession# O70138) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

17394

Accession:

O70138

Predicted Molecular Mass:

76.4 kDa

SDS-PAGE:

80-90 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

Matrix Metalloproteinase 8 (MMP8), also known as neutrophil collagenase, is a member of the MMP family that plays a critical role in extracellular matrix remodeling. It is primarily expressed in neutrophils and is involved in collagen degradation and tissue repair. MMP8 has been shown to facilitate neutrophil migration and is essential for immune responses. In cancer, MMP8 can have both pro-tumorigenic and anti-tumorigenic roles. For instance, mutations in MMP8 have been identified in melanoma, with wild-type MMP8 inhibiting tumor progression. Additionally, MMP8-deficient mice exhibit increased susceptibility to certain infections and delayed wound healing. These findings highlight the multifaceted role of MMP8 in inflammation, cancer, and tissue repair.

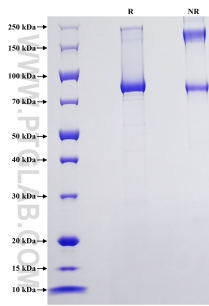
References

1. Lin, Michelle et al. The American journal of pathology vol. 173,1 (2008): 144-53.
2. Palavalli, Lavanya H et al. Nature genetics vol. 41,5 (2009): 518-20.
3. Daly, Meghan C et al. FASEB journal : official publication of the Federation of American Societies for Experimental Biology

Synonyms

Collagenase 2, EC:3.4.24.34, Matrix metalloproteinase-8, MMP-8, Neutrophil collagenase

Selected Validation Data



Purity of Recombinant Mouse MMP8 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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