

Synonym

MMP9,CLG4B,GELB,MANDP2,Gelatinase B

Source

Cynomolgus MMP-9 Protein, His Tag (MM9-C52H3) is expressed from human 293 cells (HEK293). It contains AA Ala 20 - Pro 469 (Accession # [XP_005569271.2](#)). It needs to be activated by agents such as APMA in vitro to have hydrolytic activity.
Predicted N-terminus: Ala 20

Molecular Characterization

MMP-9(Ala 20 - Pro 469)
XP_005569271.2

Poly-his

This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 51.8 kDa. The protein migrates as 65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 25 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.
Contact us for customized product form or formulation.

Shipping

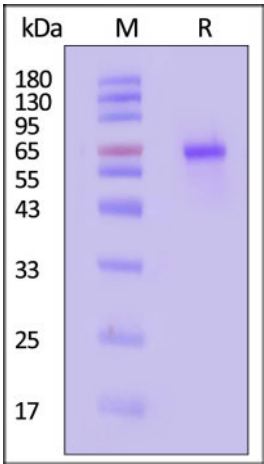
This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Cynomolgus MMP-9 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is >1500 pmol/min/µg (QC tested).

Background

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and more!



Cynomolgus MMP-9 Protein, His Tag (active enzyme)

Catalog # MM9-C52H3



BIOSYSTEMS
Acro

Matrix metalloproteinase 9 (MMP-9) is also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), CLG4B, is secreted from neutrophils, macrophages, and a number of transformed cells, and is the most complex family member in terms of domain structure and regulation of its activity. Structurally, MMP9 maybe be divided into five distinct domains: a prodomain which is cleaved upon activation, a gelatinbinding domain consisting of three contiguous fibronectin type II units, a catalytic domain containing the zinc binding site, a prolinerich linker region, and a carboxyl terminal hemopexinlike domain. This enzyme degrades various substrates including gelatin, collagen types IV and V, and elastin. MMP9 is involved in a variety of autoimmune diseases such as systemic lupus erythematosus, rheumatoid arthritis, and multiple sclerosis, and be regarded as a potential therapeutic target.

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