Mouse MMP-8 Protein, His Tag (active enzyme, MALS verified)

Catalog # MM8-M52H7

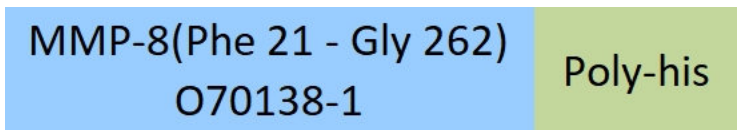
Synonym

CLG1 Protein, HNC Protein, MMP-8 Protein, PMNL-CL Protein,

Source

Mouse MMP-8 Protein, His Tag(MM8-M52H7) is expressed from human 293 cells (HEK293). It contains AA Phe 21 - Gly 262 (Accession # O70138-1). Predicted N-terminus: Phe 21

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 28.9 kDa. The protein migrates as 35-40 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.

>95% as determined by SEC-MALS.

Formulation

Supplied as 0.2 μm filtered solution in 25 mM MES, 150 mM NaCl, 20% Glycerol, pH5.5 with trehalose 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.

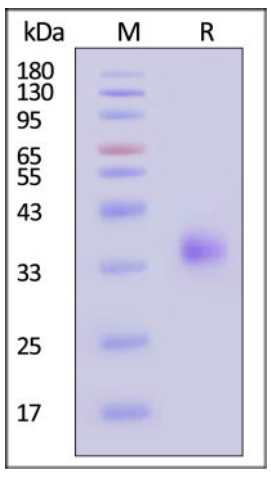
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

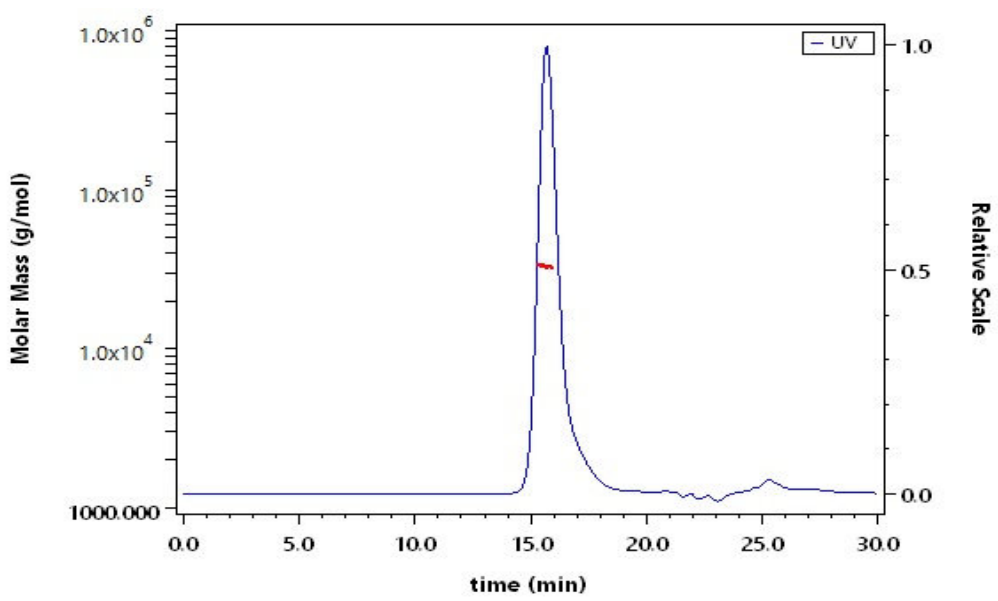
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Mouse MMP-8 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).

SEC-MALS



The purity of Mouse MMP-8 Protein, His Tag (Cat. No. MM8-M52H7) is more than 95% and the molecular weight of this protein is around 28-40 kDa verified by SEC-MALS.
Report

Bioactivity

Measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH2. The specific activity is >700 pmol/min/μg (QC tested).

Background

Matrix metalloproteinase-8（MMP-8）also known as neutrophil collagenase and CLG1，is a member of matrix metalloproteinases (MMPs) family，which degrade components of the extracellular matrix (ECM) and play essential roles in various physiological processes as well as pathological processes. MMP-8 may affect the metastatic behavior of breast cancer cells through protection against lymph node metastasis, underlining the importance of anti-target identification in drug development. MMP-8 in the tumor may have a protective effect against lymph node metastasis.