General Information

Gene Name Synonym:
MMP9

Protein Construction:
A DNA sequence encoding the rat MMP9 (EDL96479.1) (Met 1-Pro 708) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Rat
Expression Host: HEK293 Cells

QC Testing
Purity: > 95 % as determined by SDS-PAGE

Bio Activity:
Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH2 (AnaSpec, Catalog # 27076). The specific activity is >1000 pmol/min/μg. (Activation description: The proenzyme needs to be activated by APMA for an activated form)

Endotoxin:
< 1.0 EU per μg of the protein as determined by the LAL method

Stability:
Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 20

Molecular Mass:
The secreted recombinant rat MMP9 comprises 700 amino acids and predicts a molecular mass of 77.8 kDa. The apparent molecular mass of the rat MMP9 is approximately 100-110 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:
Lyophilized from sterile 50mM MES, 100mM NaCl, 1mM CaCl2, 10% Glycerol, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

References

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For US Customer: Fax: 267-657-0217 Tel: 215-583-7898
Global Customer: Fax: +86-10-5862-8288 Tel:+86-400-890-9989 http://www.sinobiological.com