

General Information

Gene Name Synonym

Matrix metalloproteinase-3; Transin-1

Protein Construction

A DNA sequence encoding the human MMP3 (AAA36321.1) N-terminal fragment (Tyr 18-Thr 272) was expressed and purified.

Organism

Human

Expression Host

E. coli

QC Testing

Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nva-WR-K(Dnp)-NH₂, AnaSpec, Catalog # 27114.

The specific activity is >300 pmoles/min/μg.

Purity

> 97 % as determined by SDS-PAGE

Endotoxin

Please contact us for more information.

Stability

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

Predicted N terminal

Met 1

Molecular Mass

The recombinant human MMP3 consisting of 256 amino acids and has a calculated molecular mass of 29 KDa. It migrates as an approximately 34 KDa band in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 50mM Tris, 10mM CaCl₂, 1uM ZnCl₂, 50mM NaCl, 0.5% Brij35, pH 7.0
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

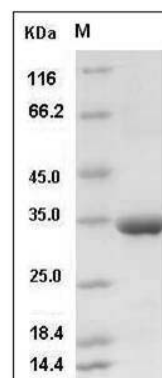
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human MMP-3 Protein SDS-PAGE