

Active Native Human MMP2 protein

Cat. No. MMP2-248H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native Human MMP2 protein(NP_004521.1) (Met 1-Cys 660) was expressed and purified in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met1-Cys660
Form	Lyophilized from sterile 0.05 % Brij-35, 150 mM NaCl, 5 mM CaCl ₂ , 50 mM Tris, pH 7.5. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1. Measured by its ability to cleave the fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH ₂ . The specific activity is > 1,000 pmoles/min/g. (Activation description: The proenzyme needs to be activated by APMA for an activated form) 2. Measured by its binding ability in a functional ELISA. Immobilized Human MMP-2 at 2 µg/ml (100 µl/well) can bind Human TIMP2 hFc, the EC ₅₀ of Human TIMP2 hFc is 6.0-30.0 ng/mL.
Molecular Mass	The recombinant human MMP2 consists of 631 amino acids and migrates as an 72 kDa band as predicted in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per

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	µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C 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	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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