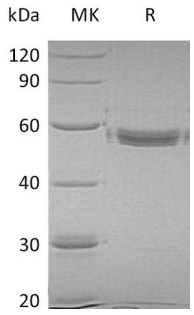
Product Name: Recombinant Human MMP-1 (C-6His)
Catalog #: PHH1167

Summary

Name	MMP-1/Interstitial collagenase
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Matrix Metalloproteinase-1 is produced by our Mammalian expression system and the target gene encoding Phe20-Asn469 is expressed with a 6His tag at the C-terminus.The proenzyme needs to be activated by APMA for an activated form.
Accession #	P03956
Host	Human Cells
Species	Human
Predicted Molecular Mass	52.88 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM MES, 150mM NaCl, 2mM CaCl2, 1mM DTT, 0.05%Brij35, 10% Glycerol, pH 5.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	Interstitial Collagenase; Fibroblast Collagenase; Matrix Metalloproteinase-1; MMP-1; MMP1; CLG
Background	Matrix Metalloproteinase-1 (MMP-1) is expressed by fibroblasts, keratinocytes,

endothelial cells, monocytes and macrophages. MMP1 contains several distinct domains: a prodomain that is cleaved upon activation, a catalytic domain containing the zinc binding site, a short hinge region, and a carboxyl terminal (hemopexin like) domain. MMP-1 can degrade a broad range of substrates including types I, II, III, VII, VIII, and X collagens as well as casein, gelatin, α1 antitrypsin, myelin basic protein, L-Selectin, pro-TNF, IL1, IGFBP3, IGFBP5, pro-MMP2, and pro-MMP9. A significant role of MMP1 is the degradation of fibrillar collagens in extracellular matrix remodeling, characterized by the cleavage of the interstitial collagen triple helix into 3/4, 1/4 fragments. MMP1 may also be involved in enzyme cascades, cytokine regulation and cell surface molecule modulation.

Note

For Research Use Only , Not for Diagnostic Use.