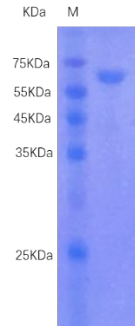
Specification

Product name:	Recombinant human MMP-3 antigen (T-MMP-3)
Source:	E.coli derived
Accession #:	/
SDS-PAGE:	55-70 kDa, reducing conditions
Construction：	MMP-3 with Trx tag at N-terminal
Predicted Molecular Mass:	55kDa
Activity:	Immunoreactivity was confirmed by reacting with monoclonal antibodies specific to human MMP-3 .
Application:	ELISA, immunology, others unspecified.
Form:	Liquid
Formulation:	20 mM Tris, 300 mM NaCl, 8M Urea pH 8.0
Stability & Storage:	Stable at -80°C
Shipping condition:	The product is shipped on ice pack.Upon receiving, store it immediately at the recommended temperature.
Conc. Determined:	BCA
Purity:	＞90%

SDS-PAGE



Greater than 90% as determined by reducing SDS-PAGE. (QC verified).

BACKGROUND

MMP3 is a member of the matrix metalloproteinase (MMP) family whose members are involved in thebreakdown of extracellular matrix in normal physiological processes, such as embryonic development,reproduction, tissue remodeling, and disease processes including arthritis and metastasis. The MMP-3 enzymedegrades collagen types II, III, IV, IX, and X, proteoglycans, fibronectin, laminin, and elastin. In addition, MMP-3can also activate other MMPs such as MMP-1, MMP-7, and MMP-9, rendering MMP-3 crucial in connectivetissue remodeling. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, andtumor initiation.

References:

1. Matrix metalloproteinases and the regulation of tissue remodelling
2. Matrix metalloproteinase-3 releases active heparin-binding EGF-like growth factor by cleavage at a specific juxtamembrane site
3. Clinical value of serum MMP-3 in chronic kidney disease
4. Matrix metalloproteinase-3 secretion from human pancreatic periacinar myofibroblasts in response to inflammatory mediators
5. Matrix metalloproteinases and the regulation of tissue remodelling.

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