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MMP7 Protein (AA 95-267) (His tag)



Go to Product page

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Quantity:	100 μg
Target:	MMP7
Protein Characteristics:	AA 95-267
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP7 protein is labelled with His tag.

Product Details

Sequence:	Tyr 95-Lys 267
Characteristics:	A DNA sequence encoding the Human MMP-7 protein (P09237) (Tyr 95-Lys 267) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	MMP7
Alternative Name:	MMP-7 (MMP7 Products)
Background:	Abbreviation: MMP-7
	Target Synonym: MMP-7,MPSL1,PUMP-1
	Background: Matrix metalloproteinases (MMPs) are a family of zinc and calcium dependent
	endopeptidases with the combined ability to degrade all the components of the extracellular

matrix. MMP-7 (matrilysin) is expressed in epithelial cells of normal and diseased tissues, and is capable of digesting a large series of proteins of the extracellular matrix including collagen IV and X, gelatin, casein, laminin, aggrecan, entactin, elastin and versican. MMP-7 is implicated in the activation of other proteinases such as plasminogen, MMP-1, MMP-2, and MMP-9. In addition to its roles in connective tissue remodeling and cancer, MMP-7 also regulates intestinal alpha ?defensin activation in innate host defense, releases tumor necrosis factoralpha in a model of herniated disc resorption, and cleaves FasL to generate a soluble form in a model of prostate involution. Structurally, MMP-7 is the smallest of the MMPs and consists of two domains: a pro-domain that is cleaved upon activation and a catalytic domain containing the zinc-binding site.

Molecular Weight:

Calculated MW: 18.92 kDa

Observed MW: 20 kDa

UniProt:

P09237

Pathways:

Production of Molecular Mediator of Immune Response

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months