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Datasheet for ABIN7196950 MMP7 Protein (Fc Tag)

Overview

Quantity:	10 µg
Target:	MMP7
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP7 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human MMP7 Protein (Fc Tag)
Sequence:	Tyr 95-Lys 267
Characteristics:	A DNA sequence encoding the active form of human MMP7 (NP_002414.1) (Tyr 95-Lys 267) was expressed with the fused Fc region of human IgG1 at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	MMP7
Alternative Name:	MMP7 (MMP7 Products)
Background:	Background: Matrix metalloproteinases (MMPs) are a family of zinc-dependent endopeptidases that degrade components of the extracellular matrix (ECM) and play essential roles in various physiological and pathological processes such as morphogenesis, differentiation, angiogenesis,

Target Details

tissue remodeling, and tumor invasion. MMPs are synthesized as pro-enzymes and converted to active form by extracellular proteinases. MMP7, also referred to as matrilysin, is the smallest member of the MMP family and differs from other MMP members in that it lacks the C-terminal hemopexin-like domain. MMP7 is produced primarily by mucosal epithelia, and is capable of degrading various ECM proteins including proteoglycans, fibronectin, elastin and casein. This enzyme serves essential functions in both innate defense and wound healing, and appears to be one of the most important MMPs in human colon cancers. It has been reported that MMP7 contributes to tumor malignancy probably by cleaving cell surface proteins such as Fas ligand, degradation of IgG or inducing E-cadherin-mediated cell aggregation. In addition, matrilysin is also identified as a mediator of pulmonary fibrosis and a potential therapeutic target.

Synonym: MMP-7,MPSL1,PUMP-1

Molecular Weight: 45.8 kDa

NCBI Accession: [NP_002414](#)

Pathways: [Production of Molecular Mediator of Immune Response](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5

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.