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Datasheet for ABIN7317945 MMP8 Protein

Overview

Quantity:	20 µg
Target:	MMP8
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human MMP8/CLG1 Protein (Active)
Sequence:	Phe 21-Gly 467
Characteristics:	A DNA sequence encoding the pro form of human MMP8 (NP_002415.1) (Phe 21-Gly 467) was expressed and purified, with an initial Met at the N-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2 (AnaSpec, Catalog # 27076) . The specific activity is > 250 pmoles/min/µg .(Activation description: The proenzyme needs to be activated by APMA for an activated form)

Target Details

Target:	MMP8
Alternative Name:	MMP8/CLG1 (MMP8 Products)

Target Details

Background:	<p>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 processes such as morphogenesis, differentiation, angiogenesis and tissue remodeling, as well as pathological processes including inflammation, arthritis, cardiovascular diseases, pulmonary diseases and tumor invasion. Neutrophil collagenase, also known as Matrix metalloproteinase-8, MMP-8, and CLG1, is a member of the peptidase M10A family. MMP-8 may affect the metastatic behaviour of breast cancer cells through protection against lymph node metastasis, underlining the importance of anti-target identification in drug development. MMP-8 in the tumour may have a protective effect against lymph node metastasis. MMP-8 may affect the metastatic behaviour of breast cancer cells through protection against lymph node metastasis, underlining the importance of anti-target identification in drug development. MMP-8 participates in wound repair by contributing to the resolution of inflammation and open the possibility to develop new strategies for treating wound healing defects.</p> <p>Synonym: Neutrophil collagenase, Matrix metalloproteinase-8, MMP-8, PMNL collagenase, PMNL-CL,MMP8, CLG1</p>
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Molecular Weight:	52 kDa
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NCBI Accession:	NP_002415
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile PBS, pH 7.4
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	<p>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.</p>
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