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Datasheet for ABIN1097158
MMP2 Protein (AA 30-660) (His tag)

Overview

Quantity:	50 µg
Target:	MMP2
Protein Characteristics:	AA 30-660
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Matrix Metalloproteinase-2/MMP-2 (C-6His)
Sequence:	<p>APSPIIKFPG DVAPKTDKEL AVQYLNTFYG CPKESC�LFV LKDTLKKMQK FFGLPQTGDL DQNTIETMRK PRCGNPDVAN YNFFPRKPKW DKNQITYRII GYTPDLDPET VDDAFARAFQ VWSDVTPLRF SRIHDGEADI MINFGRWEHG DGYPFDGKDG LLAHAFAPGT VGGDŞHFDD DELWTLGEGQ VVRVKYGNAD GEYCKFPFLF NGKEYNSCTD TGRSDGFLWC STTYNFEKDG KYGFCPHEAL FTMGGNAEGQ PCKFPFRFQG TSYDSCTTEG RTDGYRWCGT TEDYDRDKKY GFCPETAMST VGGNSEGAPC VFPFTFLGNK YESCTSAGRS DGKMWCATTA NYDDDRKWGF CPDQGYSFLF VAAHEFGHAM GLEHSQDPGA LMAPIYTYTK NFRLSQDDIK GIQELYGASP DIDLGTGPTP TLGPVTPEIC KQDIVFDGIA QIRGEIFFFK DRFIWRTVTP RDKPMGPLLV ATFWPELPEK IDAVYEAPQE EKAVFFAGNE YWIYSASTLE RGYPKPLTSL GLPPDVQRVD AAFNWSKNKK TYIFAGDKFW RYNEVKKKMD PGFPKLIADA WNAIPDNLDA VVDLQGGGHS YFFKGAYYLK LENQSLKSVK FGSIKSDWLG CVDHHHHHHH</p>
Characteristics:	Recombinant Human Matrix Metalloproteinase-2/MMP-2 is produced with our mammalian

Product Details

expression system in human cells. The target protein is expressed with sequence (Ala30-Cys660) of Human MMP-2 fused with a polyhistidine tag at the C-terminus.

Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	MMP2
Alternative Name:	mmp-2 (MMP2 Products)
Sub Type:	Fusionprotein
Background:	<p>72 kDa type IV collagenase also known as matrix metalloproteinase-2 (MMP-2) and gelatinase A is an enzyme that in humans is encoded by the MMP2 gene. It belongs to the matrix metalloproteinase (MMP) family. 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. MMP-2 is ubiquitous metalloproteinase that is involved in diverse functions such as remodeling of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, atherosclerotic plaque rupture, as well as degrading extracellular matrix proteins. MMP-2 can also act on several nonmatrix proteins such as big endothelial 1 and beta-type CGRP promoting vasoconstriction. MMP-2 cleaves KISS at a Gly-</p> <p>Alternative Names: -Leu bond and appears to have a role in myocardial cell death pathways.</p>
Molecular Weight:	72.01 kDa
UniProt:	P08253
Pathways:	Activation of Innate immune Response

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH ₂ O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months