antibodies

Datasheet for ABIN3093812 MMP 9 Protein (AA 107-707) (His tag)





Overview

Quantity:	1 mg
Target:	MMP 9 (MMP9)
Protein Characteristics:	AA 107-707
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP 9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	FQTFEGDLKW HHHNITYWIQ NYSEDLPRAV IDDAFARAFA LWSAVTPLTF TRVYSRDADI
	VIQFGVAEHG DGYPFDGKDG LLAHAFPPGP GIQGDAHFDD DELWSLGKGV VVPTRFGNAD
	GAACHFPFIF EGRSYSACTT DGRSDGLPWC STTANYDTDD RFGFCPSERL YTQDGNADGK
	PCQFPFIFQG QSYSACTTDG RSDGYRWCAT TANYDRDKLF GFCPTRADST VMGGNSAGEL
	CVFPFTFLGK EYSTCTSEGR GDGRLWCATT SNFDSDKKWG FCPDQGYSLF LVAAHEFGHA
	LGLDHSSVPE ALMYPMYRFT EGPPLHKDDV NGIRHLYGPR PEPEPRPPTT TTPQPTAPPT
	VCPTGPPTVH PSERPTAGPT GPPSAGPTGP PTAGPSTATT VPLSPVDDAC NVNIFDAIAE
	IGNQLYLFKD GKYWRFSEGR GSRPQGPFLI ADKWPALPRK LDSVFEERLS KKLFFFSGRQ
	VWVYTGASVL GPRRLDKLGL GADVAQVTGA LRSGRGKMLL FSGRRLWRFD VKAQMVDPRS
	ASEVDRMFPG VPLDTHDVFQ YREKAYFCQD RFYWRVSSRS ELNQVDQVGY VTYDILQCPE D
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human MMP9 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

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Target Details	
Target:	MMP 9 (MMP9)
Alternative Name:	MMP9 (MMP9 Products)
Background:	May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-I-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide. {ECO:0000269]PubMed:1480034}.
Molecular Weight:	67.6 kDa Including tag.
UniProt:	P14780
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, CXCR4-mediated Signaling Events
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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