antibodies

Datasheet for ABIN3083810 MMP14 Protein (AA 112-541) (His tag)





Overview

Quantity:	1 mg
Target:	MMP14
Protein Characteristics:	AA 112-541
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP14 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Undi dutenstitus.	 Made in Germany - from design to production - by highly experienced protein experts. Human MMP14 Protein (raised in E. Coli) purified by multi-step, protein-specific process to
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts.
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	EGGGAVSAAA
	EVFTYFYKGN KYWKFNNQKL KVEPGYPKSA LRDWMGCPSG GRPDEGTEEE TEVIIIEVDE
	TDKIDAALFW MPNGKTYFFR GNKYYRFNEE LRAVDSEYPK NIKVWEGIPE SPRGSFMGSD
	GYPMPIGQFW RGLPASINTA YERKDGKFVF FKGDKHWVFD EASLEPGYPK HIKELGRGLP
	KMPPQPRTTS RPSVPDKPKN PTYGPNICDG NFDTVAMLRG EMFVFKERWF WRVRNNQVMD
	DIFLVAVHEL GHALGLEHSS DPSAIMAPFY QWMDTENFVL PDDDRRGIQQ LYGGESGFPT
	EKQADIMIFF AEGFHGDSTP FDGEGGFLAH AYFPGPNIGG DTHFDSAEPW TVRNEDLNGN
Sequence:	YAIQGLKWQH NEITFCIQNY TPKVGEYATY EAIRKAFRVW ESATPLRFRE VPYAYIREGH

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3083810 | 01/16/2024 | Copyright antibodies-online. All rights reserved.

Product Details	
	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 bacterial culture:
	 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Target Details	
Target:	MMP14
Alternative Name:	MMP14 (MMP14 Products)

Crystallography grade

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3083810 | 01/16/2024 | Copyright antibodies-online. All rights reserved.

Target Details

Background:	Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by
	activating progelatinase A on the tumor cell surface. May be involved in actin cytoskeleton
	reorganization by cleaving PTK7. Acts as a positive regulator of cell growth and migration via
	activation of MMP15. Involved in the formation of the fibrovascular tissues in association with
	pro-MMP2. {EC0:0000269 PubMed:12714657, EC0:0000269 PubMed:20837484,
	ECO:0000269 PubMed:22065321}.
Molecular Weight:	50.1 kDa Including tag.
UniProt:	P50281
Pathways:	Autophagy

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 guarantee 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)



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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3083810 | 01/16/2024 | Copyright antibodies-online. All rights reserved.