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Datasheet for ABIN7275270 MMP 9 Protein (His-Avi Tag)

3 Images



Overview

Quantity:	100 µg
Target:	MMP 9 (MMP9)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP 9 protein is labelled with His-Avi Tag.

Product Details

Sequence:	Ala20-Asp707
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human MMP-9, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-MMP-9 Antibody, hFc Tag with the EC50 of 17.4ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	MMP 9 (MMP9)
Alternative Name:	MMP-9 (MMP9 Products)
Background:	MMP-9, GELB, CLG4B, MANDP2, Gelatinase B,Matrix metalloproteinase 9 (MMP9) contributes
	to this process and deficiencies in the MMP9 lead to impaired healing. Inappropriate expression

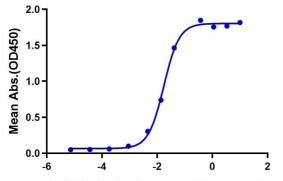
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	of MMP9 also contributes to impaired re-epithelialization. Previously we demonstrated that FOXO1 was activated in wound healing but to higher levels in diabetic wounds. To address mechanisms of impaired re-epithelialization we examined MMP9 expression in vivo in full thickness dermal scalp wounds created in experimental K14.
Molecular Weight:	79.3 kDa. Due to glycosylation, the protein migrates to 85-100 kDa based on Tris-Bis PAGE result.
UniProt:	P14780
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, CXCR4-mediated Signaling Events
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost

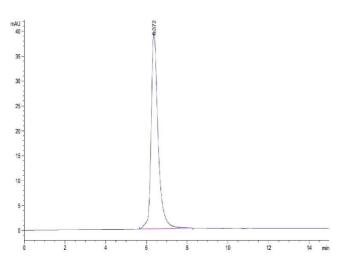
Expiry Date: 12 months

freezer and avoid repeated freeze-thaw cycles.

Human MMP-9, His Tag ELISA 0.05µg Human MMP-9, His Tag Per Well



Log Anti-MMP-9 Antibody, hFc Tag Conc.(µg/ml)



ELISA

Image 1. Immobilized Human MMP-9, His Tag at $0.5 \mu g/mL$ (100 $\mu L/Well$) on the plate. Dose response curve for Anti-MMP-9 Antibody, hFc Tag with the EC50 of 17.4 ng/mL determined by ELISA.

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human MMP-9 is greater than 95 % as determined by SEC-HPLC.

SDS-PAGE

Image 3. Human MMP-9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

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