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Datasheet for ABIN7534286 **MMP13 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	MMP13
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This MMP13 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human MMP-13 Protein
Sequence:	LPLPSGGDED DLSEEDLQFA ERYLRSYYHP TNLAGILKEN AASSMTERLR EMQSFFGLEV TGKLLDNTLD VMKKPRCGVP DVGEYNVFPRL TLKWSKMNLT YRIVNYTPDM THSEVEKAFK KAFKVVSDVT PLNFTRLHDG IADIMISFGI KEHGDFYFPD GPSGLLAHAF PPGPNYGGDA HFDDDETWTS SSKGYNLFLV AAHEFGHSLG LDHSDKDPGAL MFPIYTYTGK SHFMLPDDDDV QGIQSLYGPQ DEDPNPKHPK TPKCDPSLS LDAITSLRGE TMIFKDRFFW RLHPQQVDAE LFLTKSFWE LPNRIDAAAYE HPSHDLIFIF RGRKFWALNG YDILEGYPKK ISELGLPKEV KKISA AVHFE DTGKTL LFSG NQVWRYDDTN HIMDKDYPRLL IEEDFP GIGD KVDVVEKNG YIYFFNGPIQ FEYSIWSNRI VRVMPANSIL WC
Specificity:	Leu20-Cys471
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured in a cell migration assay using A549 cells. 10 ng/mL of Recombinant Human MMP-13 can effectively induce A549 cells migration.2.Measured by its ability to cleave the fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH2. The specific activity is >2900 pmol/min/µg.

Target Details

Target:	MMP13
Alternative Name:	MMP-13 (MMP13 Products)
Background:	<p>Description: Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases. MMP-13 (Collagenase-3) has been demonstrated to degrade a range of extracellular matrix proteins, including collagen types I, II, III, IV, IX, X and XIV, gelatin, aggrecan, perlecan and fibronectin. MMP-13 is proteolytically processed to generate the mature protease. MMP-13 is distinguished from the other human collagenases ,it cleaves type II collagen more efficiently than types I and III. MMP-13 is expressed by fibroblasts, chondrocytes and squamous epithelial cells. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis.</p> <p>Name: CLG3, MANDP1, MDST, MMP-13,MMP13,MANDP1,MDST,MMP-13</p>
Gene ID:	4322
UniProt:	P45452

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C

Handling

Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.