

Datasheet for ABIN6387374

MMP13 Protein (AA 104-471) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	MMP13
Protein Characteristics:	AA 104-471
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP13 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence: MGSSHHHHHH SSSLVPRGSH MGSYNVFPRT LKWSKMNLTY RIVNYTPDMT HSEVEKAFKK
AFKVVSDVTP LNFTRLHDGI ADIMISFGIK EHGDFYPPFDG PSGLLAHAFP PGPNYGGDAH
FDDDETWTSS SKGYNLFLVA AHEFGHSLGL DSKDPPGALM FPIYTYTGKS HFMLPDDDVQ
GIQSLYGPGD EDPNPKHPKT PDKCDPSLSL DAITSLRGET MIFKDRFFWR LHPQQVDAEL
FLTksfWPEL PNRIDAAYEH PSHDLIFIFR GRKFWALNGY DILEGYPKKI SELGLPKEVK
KISAAVHFED TGKTL LFSGN QVWRYDDTNH IMDKDYPRLI EEDFPGIGDK VDAVYEKNGY
IYFFNGPIQF EYSIWSNRIV RVMPANSILW C

Purity: > 85 % by SDS - PAGE

Target Details

Target: MMP13

Target Details

Alternative Name: [MMP13 \(MMP13 Products\)](#)

Background: MMP13 of the matrix metalloproteinase (MMP) family is involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The protein encoded by this gene cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. Recombinant human MMP13 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Molecular Weight: 44.7 kDa (391aa) confirmed by MALDI-TOF

NCBI Accession: [NP_002418](#)

UniProt: [P45452](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

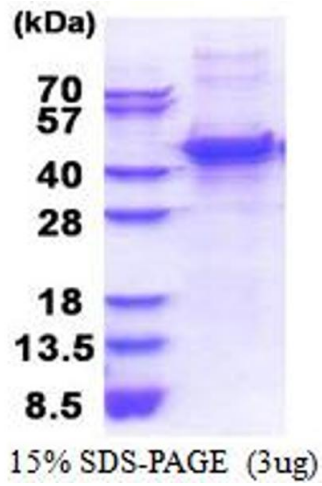
Format: Liquid

Concentration: 0.5 mg/mL

Buffer: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10 % glycerol, 0.15M NaCl, 1 mM DTT

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



SDS-PAGE

Image 1.