

## Product datasheet for **AR51360PU-N**

### MMP-13 (His-tag) Human Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | MMP-13 (His-tag) human recombinant protein, 0.1 mg  |
| Species:                              | Human   |
| Expression Host:                      | E. coli   |
| Expression cDNA Clone or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGSYNVFPRT LKWSKMNLTY RIVNYTPDMT HSEVEKAFKK<br>AFKVWSDVTP LNFTRLHDGI ADIMISFGIK EHGDFYFPDG PSGLLAHAFP PGPNYGGDAH<br>FDDDETWTSS SKGYNLFLVA AHEFGHSLGL DSKDPGALM FPIYTYTGKS HFMLPDDDVQ<br>GIQSLYGP GD EDPNPKHPKT PDKCDPSLSL DAITSRGET MIFKDRFFWR LHPQQVDAEL<br>FLTksFWPEL PNRIDAAYEH PSHDLIFIFR GRKFWALNGY DILEGYPKKI SELGLPKEVK KISA AVHFED<br>TGKTLFSGN QVWRYDDTNH IMDKDYPRLI EEDFPGIGDK VDAVYEKNGY IYFFNGPIQF<br>EYSIWSNRIV RVMPANSILW C |
| Tag:                                  | His-tag   |
| Predicted MW:                         | 44.7 kDa  |
| Concentration:                        | lot specific  |
| Purity:                               | >90% by SDS - PAGE  |
| Buffer:                               | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.15M NaCl, 1 mM DTT   |
| Preparation:                          | Liquid purified protein   |
| Protein Description:                  | Recombinant human MMP13 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.  |
| Storage:                              | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.   |
| Stability:                            | Shelf life: one year from despatch.   |
| RefSeq:                               | <a href="#">NP_002418</a>   |
| Locus ID:                             | 4322  |
| UniProt ID:                           | <a href="#">P45452</a>  |



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**Cytogenetics:** 11q22.2

**Synonyms:** Collagenase 3, MMP13, Matrix metalloproteinase-13

**Summary:** This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease 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. Mutations in this gene are associated with metaphyseal anadysplasia. This gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016]

**Protein Families:** Druggable Genome, Protease

### Product images:

