



Recombinant Dog MMP13 Protein Product Manual

1. Product Basic Information

Product No.: REP07472

Protein Name: Collagenase Matrix Metalloproteinase 13 (MMP13)

Aliases: CLG3; MDST; MANDP1; MMP-13; collagenase matrix metalloproteinase 13; matrix metalloproteinase 13 (collagenase 3)

UniProt ID: P45452

UniProt Link: <https://www.uniprot.org/uniprotkb/P45452/entry>

Species Source: Canis lupus familiaris (Dog) (Canis familiaris)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (28-478aa)

Molecular Weight: 67.5kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (28-478aa)

LPLPSDGDDDLSEEDFQLAERYLKSYYYPLNPAGILKKSAAGSVADRLREMQSFFG
LEVTKLDDNTLDIMKKPRCGVPDVGEYNVFPRTLKWSKTNLTyrIVNYTPDLTHSE
VEKAFKKAFKVWSDVTPLNFTRLHDGTADIMISFGTKEHGDFYPFDGPGSGLLAHAFP
PGPNYGGDAHFDDDETWTSSSKGYNLFLVAAHEFGHSLGLDHSKDPGALMFPIYT
YTGKSHFMLPDDDVQGIQSLYGPGDEDPNPRHPKTPDKCDPSLSLDAITSLRGETM
IFKDRFFWRLHPQQVDAELFLTKSFWPELPNRIDAAYEHPSRDLIFRGRKYWALN
GYDILEGYPQKISELGFPKEVKKISA AVHFEDTGKTLFFSGNQVWSYDDTNQIMDKD
YPRLIEEDFPGIGDKVDAVYEKNGYIYFFNGPIQFEYNIWSKRIVRVMPANSLLWC

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Dog MMP13 full length of mature protein protein (28-478aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. MMP13, also known as CLG3 or MDST or MANDP1, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.