



Recombinant Human MMP12

Protein Product Manual

1. Product Basic Information

Product No.: REP07471

Protein Name: Macrophage Metalloelastase (MMP12)

Aliases: ME; HME; MME; MMP-12; macrophage metalloelastase; matrix metallopeptidase 12; matrix metallopeptidase 12 (macrophage elastase); matrix metalloproteinase 12 (macrophage elastase)

UniProt ID: P39900

UniProt Link: <https://www.uniprot.org/uniprotkb/P39900/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (106-470aa)

Molecular Weight: 46.1kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (106-470aa)

GPVWRKHYITYRINNYTPDMNREDVDYAIRKAFQVWSNVTPFKFSKINTGMADILVV
FARGAHGDFHAFDGGKGGILAHAFGPGSGIGGDAHFDEDEFWTTTHSGGTNLFLTAV
HEIGHSLGLGHSSDPKAVMFPTYKYVDINTFRLSADDIRGIQSLYGDPKENQRLPNP
DNSEPALCDPNLSFDAVTTVGNKIFFFKDRFFWLKVSRPKTSVNLISLWPTLPSGI
EAA YEIEARNQVFLFKDDKYWLISNLRPEPNYPKSIHSFGFPNFVKKIDA AVFNPRFY
RTYFFVDNQYWR YDERRQMMDPGYPKLITKNFQGIGPKIDAVFY SKNKYYYYFFQGS
NQFEYDFLLQRITKTLKSNSWFGC

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 Human MMP12 full length of mature protein protein (106-470aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. MMP12, also known as ME or HME or MME, 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.