



Recombinant Rat MMP2 Protein Product Manual

1. Product Basic Information

Product No.: REP07475

Protein Name: Collagenase Type Iv-Neutrophil Gelatinase (MMP2)

Aliases: CLG4; MONA; CLG4A; MMP-TBE-MMP-II; collagenase type IV-neutrophil gelatinase

UniProt ID: P08253

UniProt Link: <https://www.uniprot.org/uniprotkb/P08253/entry>

Species Source: Rattus norvegicus (Rat)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (110-662aa)

Molecular Weight: 78.1kDa

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

2. Amino Acid Sequence (110-662aa)

YNFFPRKPKWDKNQITYRIIGYTPDLDPETVDDAFARALKVWSDVTPLRFSRIHDGE
ADIMINFRWEHGDGYFPDGDGLLAHAFAPGTGVGGDSHFDDDELWTLGEGQV
VRVKYGNADGEYCKFPFLFNGREYSSCTDTGRSDGFLWCSTTYNFEKDGKYGFCP
HEALFTMGNGDQGCKFPFRFQGTSYNSCTTEGRTDGYRWCCTTEDYDRDKKY
GFCPETAMSTVGGNSEGAPCVFPFTFLGNKYESCTSAGRSDGKVCATTTNYDD
DRKWGFCDQGYSLFLVAAHEFGHAMGLEHSQDPGALMAPIYTYTKNFRLSNDDI
KGIQELYGPSPDADTDGTGPTPTLGPVTPEICKQDIVFDGIAQIRGEIFFFKDRFIWR
TVTPRDKPTGPLLVATFWPELPEKIDAVYEAPQEEKAVFFAGNEYWVYSASTLERG
YPKPLTSLGLPPDVQQVDAAFNWSKNKKTYIFSGDKFWRYNEVKKKMDPGFPKLIA
DSWNAIPDNLDVVDLQGGGHSYFFKGAYYLLKLENQSLKSVKFGSIKSDWLGC

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

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 Rat MMP2 full length of mature protein protein (110-662aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. MMP2, also known as CLG4 or MONA or CLG4A, 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.