



Recombinant Escherichia coli mcr1 Protein Product Manual

1. Product Basic Information

Product No.: REP07429

Protein Name: Melanocortin 1 Receptor (mcr1)

Aliases: melanocortin 1 receptor

UniProt ID: A0A0R6L508

UniProt Link: <https://www.uniprot.org/uniprotkb/A0A0R6L508/entry>

Species Source: Escherichia coli

Expression System: E.coli

Protein Length: Full Length (1-541aa)

Molecular Weight: 76.1 kDa

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

2. Amino Acid Sequence (1-541aa)

MMQHTSVWYRRSVSPFVLVASVAVFLTATANLTFFDKISQTYPIADNLGFVLTIAVVL
FGAMLLITTLSSYRYVLKPVLILLIMGAVTSYFTDTYGTVDTTMLQNALQTDQAET
KDLLNAAFIMRIIGLVLPSELLVAFVKVDYPTWGKGLMRRLGLIVASLALILLPVVAFS
SHYASFFRVHKPLRSYVNPIMPIYSVGKLASIEYKKASAPKDTIYHAKDAVQATKPDM
RKPRLLVVFVGETARADHVSFNGYERDTFPQLAKIDGVTNFSNVTSCGTSTAYSVP
CMFSYLGADYDVTAKYQENVLDTLDRLGVSILWRDNNSDSKGVMDKLPKAQFA
DYKSATNNAICNTNPYNECRDVGMLVGLDDFVAANNKGKMLIMLHQMGNHGPAYF
KRYDEKFAKFTPVCEGNELAKCEHQSLINAYDNALLATDDFIAQSIQWLQTHSNAYD
VSMLYVSDHGESLGENGVYLHGMPNAFAPKEQRSVPAFFWTDKQTGITPMATDTV
LTHDAITPTLLKLFDTVADKVKDRTAFIR

3. Storage Buffer

Liquid Delivery Form: Tris-based buffer with 50% glycerol.

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 Escherichia coli mcr1 full length protein (1-541aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. mcr1, also known as melanocortin 1 receptor, 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.