



Recombinant Human MTHFR Protein Product Manual

1. Product Basic Information

Product No.: REP07522

Protein Name: Methylenetetrahydrofolate Reductase (MTHFR)

Aliases: methylenetetrahydrofolate reductase; methylenetetrahydrofolate reductase (NADPH); methylenetetrahydrofolate reductase (NAD(P)H); 5,10-methylenetetrahydrofolate reductase (NADPH)

UniProt ID: P42898

UniProt Link: <https://www.uniprot.org/uniprotkb/P42898/entry>

Species Source: Homo sapiens (Human)

Expression System: Yeast

Protein Length: Full Length (1-656aa)

Molecular Weight: 76.6kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (1-656aa)

MVNEARGNSSLNPCLEGSASSGSESSKDSSRCSTPGLDPERHERLREKMRRRLES
GDKWFSLEFFPPRTAEGAVNLISRFDRMAAGGPLYIDVTWHPAGDPGSDKETSSM
MIASTAVNYCGLETILHMTCCRQRLEEITGHLHKAKQLGLKNIMALRGDPIGDQWEE
EEGGFNAYVDLVKHIRSEFGDYFDICVAGYPKGHPEAGSFEADLKHLKEKVSAGAD
FIITQLFFEADTFFRFVKACTIONMGITCPIVPGIFPIQGYHSLRQLVKLSKLEVPQEIKDV
IEPIKDNDAAIRNYGIELAVSLCQELLASGLVPGLHFYTLNREMATTEVLKRLGMWTE
DPRRPLPWALSAHPKRREEDVRPIFWASRPKSYIYRTQEWDEFPNRWRGNSSSPA
FGELKDYYLFYLSKSPKEELLKMWGEELTSEESVFEVFLYLSGEPNRNGHKVTC
LPWNDEPLAAETSLLKEELLRVNRQGILTINSQPNINGKPSSDPIVGWGPSGGYVFQ
KAYLEFFTSRETAEALLQVLKKYELRVNYHLVNVKGENITNAPELQPNAVTWGIFPG
REIIQPTVVDPVSFMFWKDEAFALWIERWGKLYEEESPSRTIIQYIHDNYFLVNLVDN
DFPLDNCLWQVVEDTLELLNRPTQNARETEAP

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 MTHFR full length protein (1-656aa) expressed in Yeast. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. MTHFR, also known as methylenetetrahydrofolate reductase or methylenetetrahydrofolate reductase (NADPH) or methylenetetrahydrofolate reductase (NAD(P)H), 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.