



# Recombinant Human CHAT Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP06444

**Protein Name:** Choline Acetylase (CHAT)

**Aliases:** CMS6; CMS1A; CMS1A2; CHOACTASE; choline acetylase; choline O-acetyltransferase; acetyl CoA:choline O-acetyltransferase

**UniProt ID:** P28329

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P28329/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** E.coli

**Protein Length:** Partial (120-733aa)

**Molecular Weight:** 72.7 kDa

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

## 2. Amino Acid Sequence (120-733aa)

AAKTPSSEESGLPKLPVPPLQQTLATYLQCMRHLVSEEQFRKSQAIVQQFGAPGGL  
GETLQQKLLERQEKTANWVSEYWLNDMYLNNRLALPVNSSPAVIFARQHFP GTDD  
QLRFAASLISGVLSYKALLDSHSIPTDCAKGQLSGQPLCMKQYYGLFSSYRLPGHTQ  
DTLVAQNSSIMPEPEHVIVACCNQFFVLDDVINFRRLSEGDLFTQLRKIVKMASNED  
ERLPPIGLLTSDGRSEWAEARTVLVKDSTNRDSLDMIERCICLVCLDAPGGVELSDT  
HRALQLLHGGGYSKNGANRWYDKSLQFVVGRDGTGCVVCEHSPFDGIVLVQCTE  
HLLKHVTQSSRKLIRADSVSELPAPRRLRWKCSPEIQGHLASSAEKLQRIVKNLDFIV  
YKFDNYGKTFIKKQKCSPDAFIQVALQLAFYRLHRRLVPTYESASIRRFQEGRVDNIR  
SATPEALAFVRAVTDHKAAPASEKLLLLLKDAIRAQTAYTVMAITGMAIDNHLLALRE  
LARAMCKELPEMFMDETYLMSNRFVLSTSQVPTTTEMFCCYGPVVPNGYGACYNP  
QPETILFCISSFHCKETSSSKFAKAVEESLIDMRDLCSLLPPTESKPL

## 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).

## 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 CHAT partial protein (120-733aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. CHAT, also known as CMS6 or CMS1A or CMS1A2, 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.