



Recombinant Mouse-ear cress CHLP Protein Product Manual

1. Product Basic Information

Product No.: REP06453

Protein Name: F1M20.15Geranylgeranyl Diphosphate Reductase (CHLP)

Aliases: CHLP; At1g74470; F1M20.15Geranylgeranyl diphosphate reductase; chloroplas

UniProt ID: Q9CA67

UniProt Link: <https://www.uniprot.org/uniprotkb/Q9CA67/entry>

Species Source: Arabidopsis thaliana (Mouse-ear cress)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (44-467aa)

Molecular Weight: 63.1kDa

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

2. Amino Acid Sequence (44-467aa)

AARATPKLSNRKLRVAVIGGGPAGGAAAETLAQGGIETILIERKMDNCKPCGGAIPL
CMVGEFNLPLDIIDRRVTMKMISPSNIAVDIGRTLKEHEYIGMVRREVLDAYLRERA
EKSGATVINGLFLKMDHPENWDSPYTLHYTEYDGKTGATGTTKTMEVDAVIGADGA
NSRVAKSIDAGDYDYAIAFQERIRIPDEKMTYYEDLAEMYVGDDVSPDFYGWVFPK
CDHVAVGTGTVTHKGDIKKFQLATRNRAKDILGGKIIRVEAHPIPEHPRRLSKRV
ALVGDAAGYVTKCSGEGYFAAKSGRMCAEAIVEGSQNGKKMIDEGDLRKYLEKW
DKTYLPTYRVLDVLQKVFYRSNPAREAFVEMCNDEYVQKMTFDSYLYKRVAPGSPL
EDIKLAVNTIGSLVRANALRREIEKLSV

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 Mouse-ear cress CHLP full length of mature protein protein (44-467aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. CHLP, also known as CHLP or At1g74470 or F1M20.15Geranylgeranyl diphosphate reductase, 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.