



Recombinant Human HLCS Protein Product Manual

1. Product Basic Information

Product No.: REP07117

Protein Name: Biotin--Protein Ligase (HLCS)

Aliases: biotin--protein ligase; biotin apo-protein ligase; holocarboxylase synthetase; biotin--[acetyl-CoA-carboxylase] ligase; biotin--[methylcrotonoyl-CoA-carboxylase] ligase

UniProt ID: P50747

UniProt Link: <https://www.uniprot.org/uniprotkb/P50747/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-726aa)

Molecular Weight: 85.8 kDa

Protein Tag: N-terminal 10xHis-tagged and C-terminal Myc-tagged

2. Amino Acid Sequence (1-726aa)

MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQD
GMEHVGRDDPKALGEEPQRRGSASGSEPAGDSDRGGGPVEHYHLHLSSCHECL
ELENSTIESVKFASAENIPDLPDYSSSLESVADETSPEREGRRVNLTKAPNILLYV
GSDSQEALGRFHEVRSVLADCVDIDSYILYHLLSDALRDPWTDNCLLLVIATRESIP
EDLYQKFMA YLSQGGKVLGLSSSFTFGGFQVTSKGALHKTQNLVFSKADQSEVKL
SVLSSGCRYQEGPVRLSPGRLQGHLENEKD KRMIVHVPFGTRGGEAVLCQVHLEL
PPSSNIVQTPEDFNLLKSSNFRRYEVLEILTTGLSCDMKQVPALTPYL LSA AEEI
RDPLMQWLKGHV DSEGEIKSGQLSLRFVSSYVSEVEITPSCIPVVTNMEAFSSEHF
NLEIYRQNLQTKQLGKVILFAEVTPTTMRLLDGLMFQTPQEMGLIVIAARQTEGKGR
GGNVWLSPVGCALSTLLISIP LRSQLGQRIPFVQHLM SVAVVEAVRSIPEYQDINLRV
KWPNDIYYSDLMKIGGVLVNSTLMGETFYILIGCGFNVTNSNPTICINDLITEYNKQHK
AELKPLRADYLIARVVTVLEKLIKEFQDKGPN SVLPLYRYWVHSGQQVHLGSAEGP
KVSIVGLDDSGFLQVHQEGGEVTVHPDGNSFDMLRN LILPKRR

3. Storage Buffer



Enlibio Wuhan Enlibio Biotech Co.,Ltd Manuals version5.9

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 HLCS full length protein (1-726aa) expressed in E.coli. The protein is dual-tagged with 10xHis tag at the N-terminus and Myc tag at the C-terminus, which facilitates protein purification, detection and identification.

HLCS, also known as biotin--protein ligase or biotin apo-protein ligase or holocarboxylase synthetase, 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.