



Recombinant strain K12 IdcC Protein Product Manual

1. Product Basic Information

Product No.: REP07334

Protein Name: Lysine Decarboxylase 2 (IdcC)

Aliases: lysine decarboxylase 2

UniProt ID: P52095

UniProt Link: <https://www.uniprot.org/uniprotkb/P52095/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Full Length (1-713aa)

Molecular Weight: 84.6kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (1-713aa)

MNIIAIMGPHGVFYKDEPIKELESALVAQGFQIIWPQNSVDLLKFIEHNPRICGVIFDW
DEYSLDLCSDINQLNEYLPYAFINTHSTMDVSVQDMRMALWFFEYALGQAEDIAIR
MRQYTDEYLDNITPPFTKALFTYVKERKYTFCTPGHMGGTAYQKSPVGCLFYDFFG
GNTLKADVSISVTELGSLDHTGPHLEAEEYIARTFGAEQSYIVTNGTSTSNKIVGMY
AAPSGSTLLIDRNCHKSLAHLMMNDVVPVWLKPTRNALGILGGIPRREFTRDSIEE
KVAATTQAQWPVHAVITNSTYDGLLYNTDWIKQTLDPVPSIHFDASAWVPYTHFHPIYQ
GKSGMSGERVAGKVIFETQSTHKMLAALSQASLIHIKGEYDEEAFNEAFMMHTTTS
PSYPIVASVETAAAMLRGNPGKRLINRSVERALHFRKEVQRLREESDGWFFDIWQP
PQVDEAECWPVAPGEQWHGFNDADADHMFLDPVKVTILTPGMDEQGNMSEEGIP
AALVAKFLDERGIVVEKTGPYNLLFLFSIGIDKTKAMGLLRGLTEFKRSYDLNLRINM
LPDLYAEDPDFYRNMRIQDLAQGIHKLIRKHDLPLGLMLRAFDLPEMIMTPHQAWQ
RQIKGEVETIALEQLVGRVSANMILPYPPGVPLLMPEMLTKESRTVLDLFLMLCSV
GQHYPGFETDIHGAKQDEDEGVYRVRVLKMAG

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)

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 strain K12 IdcC full length protein (1-713aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. IdcC, also known as lysine decarboxylase 2, 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.