

LDCC Protein, E.coli (His)

Cat. No.:	HY-P700387
Synonyms:	ECK0185; JW0181; ldc; LDC2; ldcH; lysine decarboxylase 2, constitutive
Species:	E.coli
Source:	E. coli
Accession:	P52095 (M1-G713)
Gene ID:	66671526
Molecular Weight:	85 kDa

PROPERTIES

AA Sequence

MNIIAIMGPH	GVFYKDEPIK	ELESALVAQG	FQIIWPQNSV
DLLKFI EHNP	RICGVI FDWD	EYSLDLCSDI	NQLNEYLPLY
AFINTHSTMD	VSVQDMRMAL	WFFEYALGQA	EDIAIRMRQY
TDEYLDNITP	PFTKALFTYV	KERKYTFCTP	GHMGGTAYQK
SPVGCLFYDF	FGGNTLKADV	SISVTELGSL	LDHTGPHLEA
EEYIARTFGA	EQSYIVTNGT	STSNKIVGMY	AAPSGSTLLI
DRNCHKSLAH	LLMMNDVVPV	WLKPTRNALG	ILGGIPRREF
TRDSIEEKVA	ATTQAQWPVH	AVITNSTYDG	LLYNTDWIKQ
TLDVPSIHFD	SAWVPYTHFH	PIYQGKSGMS	GERVAGKVI F
ETQSTHKMLA	ALSQASLIHI	KGEYDEEAFN	EAFMMHTTTS
PSYPIVASVE	TAAAML RGNP	GKRLINRSVE	RALHFRKEVQ
RLREESDGWF	FDIWQPPQVD	EAECPVAPG	EQWHGFNDAD
ADHMF LDPVK	VTILTPGMDE	QGNMSEEGIP	AALVAKFLDE
RGIVVEKTGP	YNLLFLFSIG	IDKTKAMGLL	RGLTEFKRSY
DLNLR IKNML	PDLYAEDPDF	YRNMRIQDLA	QGIHKLIRKH
DLPLGLMLRAF	DTLPEMIMTP	HQAWQRQIKG	EVETIALEQL
VGRV SANMIL	PYP PGVPLLM	PGEMLTKESR	TVLD FLLMLC
SVGQHYPGFE	TDIHGAKQDE	DGVYRVRVLK	MAG

Biological Activity

1. The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
 2. Measured by its binding ability in a functional ELISA. Immobilized ldcC at 2 µg/mL can bind human ycbX, the EC₅₀ of human ycbX protein is ≤90 µg/mL.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

LDCC protein, also known as lysine decarboxylase, plays a critical role in the utilization of lysine by acting as an enzyme capable of catalyzing the decarboxylation of lysine. This enzymatic activity allows LDCC to remove a carboxyl group from lysine, consequently generating cadaverine, a biogenic amine. Cadaverine is involved in various biological processes and has been implicated in the modulation of cell growth, differentiation, and immune responses. LDCC's function as a lysine decarboxylase is crucial for the efficient utilization of lysine in cellular metabolism, and further research is needed to fully understand its regulatory mechanisms and potential applications in various biological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA