

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

M N I I A I M G P H	G V F Y K D E P I K	E L E S A L V A Q G	F Q I I W P Q N S V
D L L K F I E H N P	R I C G V I F D W D	E Y S L D L C S D I	N Q L N E Y L P L Y
A F I N T H S T M D	V S V Q D M R M A L	W F F E Y A L G Q A	E D I A I R M R Q Y
T D E Y L D N I T P	P F T K A L F T Y V	K E R K Y T F C T P	G H M G G T A Y Q K
S P V G C L F Y D F	F G G N T L K A D V	S I S V T E L G S L	L D H T G P H L E A
E E Y I A R T F G A	E Q S Y I V T N G T	S T S N K I V G M Y	A A P S G S T L L I
D R N C H K S L A H	L L M M N D V V P V	W L K P T R N A L G	I L G G I P R R E F
T R D S I E E K V A	A T T Q A Q W P V H	A V I T N S T Y D G	L L Y N T D W I K Q
T L D V P S I H F D	S A W V P Y T H F H	P I Y Q G K S G M S	G E R V A G K V I F
E T Q S T H K M L A	A L S Q A S L I H I	K G E Y D E E A F N	E A F M M H T T T S
P S Y P I V A S V E	T A A A M L R G N P	G K R L I N R S V E	R A L H F R K E V Q
R L R E E S D G W F	F D I W Q P P Q V D	E A E C W P V A P G	E Q W H G F N D A D
A D H M F L D P V K	V T I L T P G M D E	Q G N M S E E G I P	A A L V A K F L D E
R G I V V E K T G P	Y N L L F L F S I G	I D K T K A M G L L	R G L T E F K R S Y
D L N L R I K N M L	P D L Y A E D P D F	Y R N M R I Q D L A	Q G I H K L I R K H
D L P G L M L R A F	D T L P E M I M T P	H Q A W Q R Q I K G	E V E T I A L E Q L
V G R V S A N M I L	P Y P P G V P L L M	P G E M L T K E S R	T V L D F L L M L C
S V G Q H Y P G F E	T D I H G A K Q D E	D G V Y R V R V L K	M A G

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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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.

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