Recombinant Escherichia coli LDCA Protein (1-304 aa), His-tagged

Cat. No. LDCA-862E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) LDCA Protein (1-304 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	E.coli
Source	E.coli
ProteinLength	1-304 aa
Description	Releases the terminal D-alanine residue from the Cytoplasmic domain tetrapeptide re cycling product L-Ala-gamma-D-Glu-meso-Dap-D-Ala. To a lesser extent, can also cle ave D-Ala from murein derivatives containing the tetrapeptide, i.e. MurNAc-tetrapeptid e, UDP-MurNAc-tetrapeptide, GlcNAc-MurNAc-tetrapeptide, and GlcNAc-anhMurNA c-tetrapeptide. Does not act on murein sacculi or cross-linked muropeptides. The tripe ptides produced by the LcdA reaction can then be reused as peptidoglycan building bl ocks; LcdA is thereby involved in murein recycling. Is also essential for viability during stationary phase.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	37.6 kDa
AA Sequence	MSLFHLIAPSGYCIKQHAALRGIQRLTDAGHQVNNVEVIARRCERFAGTETERLEDLN

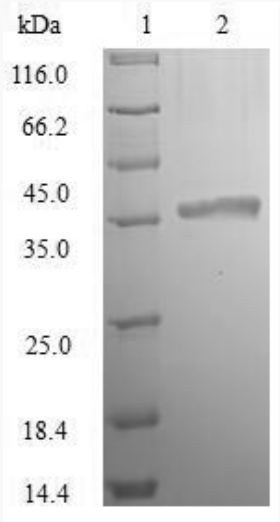
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	SLARLTTPNTIVLAVRGGYGASRLLADIDWQALVARQQHDPLLICGHSDFTAIQCGLL AHGNVITFSGPMLVANFGADELNAFTEHHFWLALRNETFTIEWQGEGPTCRAEGTL WGGNLAMLISLIGTPWMPKIENGILVLEDINEHPFRVERMLLQLYHAGILPRQKAIILG SFSGSTPNDYDAGYNLESVYAFLRSRLSIPLITGLDFGHEQRTVTLPLGAHAILNNTR EGTQLTISGHPVLKM
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

UniProt ID	P76008

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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