

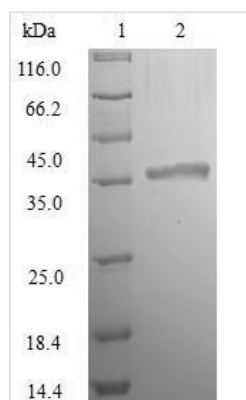


# Recombinant Escherichia coli Murein tetrapeptide carboxypeptidase (IdcA)

<b>Product Code</b>	CSB-EP303469ENV
<b>Relevance</b>	Releases the terminal D-alanine residue from the Cytoplasmic domain tetrapeptide recycling product L-Ala-gamma-D-Glu-meso-Dap-D-Ala. To a lesser extent, can also cleave D-Ala from murein derivatives containing the tetrapeptide, i.e. MurNAc-tetrapeptide, UDP-MurNAc-tetrapeptide, GlcNAc-MurNAc-tetrapeptide, and GlcNAc-anhMurNAc-tetrapeptide. Does not act on murein sacculi or cross-linked mucopeptides. The tripeptides produced by the LcdA reaction can then be reused as peptidoglycan building blocks; LcdA is thereby involved in murein recycling. Is also essential for viability during stationary phase.
<b>Abbreviation</b>	Recombinant E.coli IdcA protein
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P76008
<b>Alias</b>	LD-carboxypeptidase AMuramoyltetrapeptide carboxypeptidase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Escherichia coli (strain K12)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSLFHLIAPSGYCIKQHAALRGIQRLTDAGHQVNNVEVIARRCERFAGTETERL EDLSLARLTTPNTIVLAVRGGYGASRLADIDWQALVARQQHDPPLICGHSDF TAIQCGLLAHGNVITFSGPMLVANFGADELNAFTEHHFWLALRNETFTIEWQG EGPTCRAEGLTWGGNLAMLISLIGTPWMPKIENGILVLEDINEHPFRVERMLLQ LYHAGILPRQKAILGSFSGSTPNDYDAGYNLESVYAFLRSRLSIPLITGLDFGHE QRTVTLPGLGAHAILNNTREGTQLTISGHPVLKM
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	IdcA
<b>Expression Region</b>	1-304aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	37.6kDa
<b>Protein Length</b>	Full Length



## Image



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

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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