

Cytosine deaminase Protein, E. coli, Recombinant (His & SUMO)

General Information

Synonyms:	Cytosine deaminase;CDA;Isoguanine deaminase;Cytosine aminohydrolase;CDase;CD;codA
Protein Construction:	2-427 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P25524
Molecular Weight:	63.5 kDa (predicted)
AA Sequence:	<pre>SNNALQTIINARLPGEGLWQIHLQDGKISAIDAQSGVMPITENSLDAEQGLVIPPFVEPHIHLDTTQTAGQPN WNQSGTLFEGIERWAERKALLTHDDVKQRAWQTLKWQIANGIQHVRTHVDVSDATLTALKAMLEVVKQEVAP WIDLQIVAFPQEGILSYPNGEALLEEALRLGADVVGAIHPHFEFTREYGVESLHKTFALAQKYDRLIDVHCDEIDD EQSRFVETVAALAHHEGMGARVTASHTTAMHSYNGAYTSRLFRLKMSGINFVANPLVNIHLQGRFDYTPKR RGITRVKEMLESGINVCFGHDDVDFDPWYPLGTANMLQVLHMGLHVCQLMGYGQINDGLNLITHHSARTLNL QDYGIAAGNSANLILPAENGFDALRRQVPVRYSVRGGKVIASSTQPAQTTVYLEQPEAIDYKR</pre>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the hydrolytic deamination of cytosine to uracil. Is involved in the pyrimidine salvage pathway, which allows the cell to utilize cytosine for pyrimidine nucleotide synthesis. Is also able to catalyze deamination of

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isoguanine, a mutagenic oxidation product of adenine in DNA, and of isocytosine. To a lesser extent, also catalyzes the conversion of 5-fluorocytosine (5FC) to 5-fluorouracil (5FU); this activity allows the formation of a cytotoxic chemotherapeutic agent from a non-cytotoxic precursor.

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