

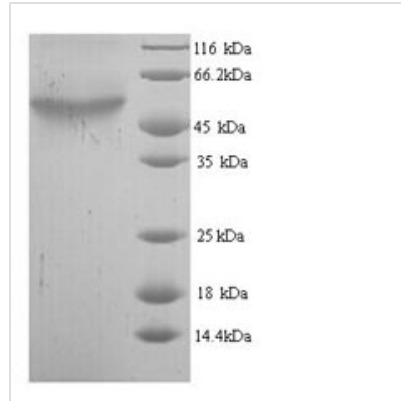


# Recombinant Escherichia coli Cytosine deaminase (codA)

<b>Product Code</b>	CSB-YP340707ENV
<b>Relevance</b>	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 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 chotherapeutic agent from a non-cytotoxic precursor.
<b>Abbreviation</b>	Recombinant E.coli codA 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>	P25524
<b>Alias</b>	Cytosine aminohydrolase/isoguanine deaminase1
<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>	SNNALQTIINARLPGEGLWQIHLQDGKISAIDAQSGVMPITENSLDAEQGLVIP PFVEPHIHLDTTQTAGQPNWNQSGTLFEGIERWAERKALLTHDDVKQRAWQT LKWQIANGIQHVTRTHVDVSDATLTALKAMLEVKQEVAPWIDLQIVAFPQEGILS YPNGEALLEEALRLGADVVGAIHFHFEFTREYGVESLHKTFALAQKYDRLIDVHC DEIDDEQSRFVETVAALAHHEGMGARVTASHTTAMHSYNGAYTSRFLRLLKM SGINFVANPLVNIHLQGRFDITYPKRRGITRVKEMLESGINVCFGHDDVFDWPY PLGTANMLQVLHMGLHVCQLMGYGQINDGLNLITHHSARTLNLQDYGIAAGNS ANLIILPAENGFDALRRQVPVRYSVRGGKVIASQTQPAQTTVYLEQPEAIDYKR
<b>Research Area</b>	Others
<b>Source</b>	Yeast
<b>Target Names</b>	codA
<b>Protein Names</b>	Recommended name: Cytosine deaminase EC= 3.5.4.1 Alternative name(s): Cytosine aminohydrolase
<b>Expression Region</b>	2-427aa
<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>	49.5kDa

**Protein Length**

Full Length of Mature Protein

**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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