

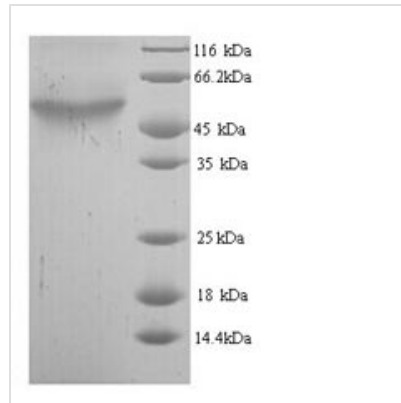


Recombinant Escherichia coli Cytosine deaminase (codA)

Product Code	CSB-YP340707ENV
Relevance	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.
Abbreviation	Recombinant E.coli codA protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P25524
Alias	Cytosine aminohydrolase/isoguanine deaminase1
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli (strain K12)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	SNNALQTIINARLPGEGLWQIHLQDGKISAIDAQSGVMPITENSLDAEQGLVIP PFVEPHIHLDTTQTAGQPNWNQSGTLFEGIERWAERKALLTHDDVKQRAWQT LKWQIANGIQHVRTHVDVSDATLTALKAMLEVKQEVAPWIDLQIVAFPQEGILS YPNGEALLEEALRLGADVVGAIHFHFTREYGVESLHKTFALAQKYDRLIDVHC DEIDDEQSRFVETVAALAHHEGMGARVTASHTTAMHSYNGAYTSRFLRLLKM SGINFVANPLVNIHLQGRFDTPKRRGITRVKEMLESGINVCFGHDDVFDWPY PLGTANMLQVLHMGLHVCQLMGYGQINDGLNLITHHSARTLNLQDYGIAAGNS ANLILPAENGFDALRRQVPVRYSVRGGKVIASSTQPAQTTVYLEQPEAIDYKR
Research Area	Others
Source	Yeast
Target Names	codA
Protein Names	Recommended name: Cytosine deaminase EC= 3.5.4.1 Alternative name(s): Cytosine aminohydrolase
Expression Region	2-427aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	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

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.