

Recombinant Carbonic Anhydrase, His-tagged

Cat. No. CAN-114E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant carbonic anhydrase fused to His-tag, was expressed in E.coli and purified by conventional chromatography techniques, 27kDa (240aa)
Source	E.coli
Description	Carbonic anhydrase (CA) is an enzyme that catalyses rapid conversion of carbon dioxide to bicarbonate and protons ($\text{CO}_2 + \text{H}_2\text{O} \leftrightarrow \text{HCO}_3^- + \text{H}^+$). Most carbonic anhydrases contain a zinc ion in their active site and the primary function of this enzyme is known to maintain acid-base balance in blood and other tissues, and to help transport carbon dioxide of tissues. Carbonic anhydrases have been found in all kingdoms of life.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MKDIDTLISN NALWSKMLVE EDPGFFEKLA QAQKPRFLWI GCSDSRVPAE RLTGLEPGEL FVHRNVANLV IHTDLNCLSV VQYAVDVLEV EHIIICGHY GCGVQAAVEN PELGLINNWL LHIRDIWFKH SSLLGEMPQE RRLDTLCELN VMEQVYNLGH STIMQSAWKR GQKVTHGWA YGIHDGLLRD LDVTATNRET LEQRYRHGIS NLKLKHANHK
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION**Gene Name**

[can carbonic anhydrase \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Synonyms

ECK0125; JW0122; yadF; can; carbonic anhydrase; putative carbonic anhydrase; EC4.2.1.1

Gene ID

[944832](#)

Protein Refseq

[NP_414668](#)

Pathway

Nitrogen metabolism

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