

Recombinant Human CA13, His-tagged

Cat. No. CA13-39H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CA13, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	CA13 also known as carbonic anhydrase 13 belongs to the alpha-carbonic anhydrase family. The carbonic anhydrase from a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible reaction that occurs relatively slowly in the absence of catalyst. The active site of most carbonic anhydrases contains a zinc ion; they are classified as metalloenzymes. There are at least five distinct CA families (alpha, beta, gamma, delta, and epsilon). These families have no significant amino acid sequence similarity and in most cases are thought to be an example of convergent evolution. The alpha-CAs are found in humans.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	31.8kDa (285aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSP MGSMRSLSWG YREHNGPIHW KEFFPIADGD QQSPIEIKTK EVKYDSSLRP LSIKYDPSSA KIISNSGHSF NVDFDDTENK SVLRGGPLTG SYRLRQVHLH WGSADDHGSE HIVDGVSYAA ELHVVHWNSD KYPSSFVEAAH EPDGLAVLGV FLQIGEPNSQ LQKITDTLDS IKEKGKQTRF

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TNFDLLSLLP PSWDYWTYPG SLTVPPLES VTWIVLKQPI NISSQQLAKF
RSLCTAEGE AAFLVSNHR PPQPLKGRKV RASFH

Purity >90% by SDS - PAGE

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

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CA13 carbonic anhydrase XIII [Homo sapiens]

Official Symbol CA13

Synonyms CA13; carbonic anhydrase XIII; carbonic anhydrase 13; CAXIII; FLJ37995; MGC59868; CA-XIII; carbonate dehydratase XIII; FLJ36434;

Gene ID 377677

mRNA Refseq NM_198584

Protein Refseq NP_940986

MIM 611436

UniProt ID Q8N1Q1

Chromosome Location 8q21

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Function

carbonate dehydratase activity; lyase activity; metal ion binding; zinc ion binding;

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