

## Recombinant Human CA13, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CA13, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	31.8kDa (285aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSP MGSMRSLSWG YREHNGPIHW KEFFPIADGD QQSPIEIKTK EVKYDSSLRP LSIKYDPSSA KIISNSGHSF NVDFDDTENK SVLRGGPLTG SYRLRQVHLH WGSADDHGSE HIVDGVSYAA ELHVVHWNSD KYP SFVEAAH EPDGLAVLGV FLQIGEPNSQ LQKITDTLDS IKEK GKQTRF

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TNFDLLSLLP PSWDYWTPG SLTVPPLLES VTWIVLKQPI NISSQQLAKF  
RSLLC TAEGE 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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