

Recombinant human CA14, His-tagged

Cat. No. CA14-2485H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CA14 protein, 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	<p>Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid.</p> <p>They show extensive diversity in tissue distribution and in their subcellular localization. CA14 is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII; however, they have different patterns of tissue-specific expression and thus may play different physiologic roles.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	33.2kDa (298aa) confirmed by MALDI-TOF
AA Sequence	<p>MGSSHHHHHHH SSGLVPRGSH MGSADGGQHW TYEGPHGQDH WPASYPECGN NAQSPIDIQT DSVTFDPDLP ALQPHGYDQP GTEPLDLHNN GHTVQLSLPS TLYLGGLPRK YVAAQLHLHW GQKGSPGGSE HQINSEATFA ELHIVHYDSD</p>

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SYDSLSEAAE RPQGLAVLGI LIEVGETKNI AYEHLSHLH EVRHKDQKTS
VPPFNLRELL PKQLGQYFRY NGLTTPPCY QSVLWTVFYR RSQISMEQLE
KLQGTLFSTE EEPSKLLVQN YRALQPLNQR MVFASFIQAG SSYTTGEM

Purity >85 % by SDS - PAGE

Applications 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 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CA14 carbonic anhydrase XIV [Homo sapiens]

Official Symbol CA14

Synonyms CA14; carbonic anhydrase XIV; carbonic anhydrase 14; CA-XIV; carbonic dehydratase; carbonate dehydratase XIV; CAXiV;

Gene ID 23632

mRNA Refseq NM_012113

Protein Refseq NP_036245

MIM 604832

UniProt ID Q9ULX7

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Chromosome Location	1q21
Function	carbonate dehydratase activity; lyase activity; metal ion binding;

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