

Recombinant Human CA14 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. CA14-269H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CA14 MS Standard C13 and N15-labeled recombinant protein (NP_036245) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. CA XIV 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. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	37.7 kDa
AA Sequence	<p>MLFSALLLEVIWILAADGGQHWTYEGPHGQDHWPAYPECGNNAQSPIDIQTDSVT FDPDLPALQPHGYDQPGTEPLDLHNNGHTVQLSLPSTLYLGGLPRKYVAAQLHLHW GQKSPGGSEHQINSEATFAELHIVHYDSDSYDSLSEAAERPQGLAVLGILIEVGETK NIAYEHILSHLHEVRHKDQKTSVPPFNLRELLPKQLGQYFRYNGSLTTPPCYQSVLW</p>

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TVFYRRSQISMEQLEKLGQTLFSTEEEPSKLLVQNYRALQPLNQRMFASFIQAGSS
 YTTGEMLSLGVGILVGCLCLLLAVYFIARKKIRKKRLENRKS SVFTSAQATTEATRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CA14 carbonic anhydrase XIV [Homo sapiens (human)]

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

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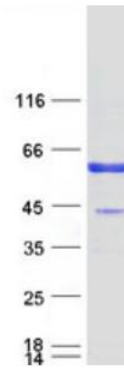
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UniProt ID

Q9ULX7

SDS-PAGE



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