

Recombinant Human CA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CA1-6515H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CA1 MS Standard C13 and N15-labeled recombinant protein (NP_001729) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. They show extensive diversity in tissue distribution and in their subcellular localization. This CA1 gene is closely linked to the CA2 and CA3 genes on chromosome 8. It encodes a cytosolic protein that is found at the highest level in erythrocytes. Allelic variants of this gene have been described in some populations. Alternative splicing and the use of alternative promoters results in multiple transcript variants.
Molecular Mass	28.9 kDa
AA Sequence	MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPAT AKEIINVGHSHFVNFEDNDNRSVLKGGPFSDSYRLFQHFHWGSTNEHGSEHTVDG VKYSAELHVAHWNSAKYSSLAEAASKADGLAVIGVLMKVGGEANPKLQKVLDAALQAIK TKGKRAPFTNFDPTLLPSSLDFTWYPGSLTHPPLYESVTWIICKESISVSSEQLAQF

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	RSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRASFTRTRPLEQKLISEEDLAANDILD YKDDDDKV
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	CA1 carbonic anhydrase I [Homo sapiens (human)]
Official Symbol	CA1
Synonyms	CA1; carbonic anhydrase I; carbonic anhydrase 1; Car1; carbonic anhydrase B; carbonic dehydratase; carbonate dehydratase I; CAB; CA-I;
Gene ID	759
mRNA Refseq	NM_001738
Protein Refseq	NP_001729
MIM	114800

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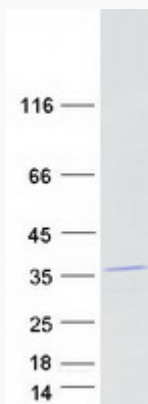
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UniProt ID

P00915

SDS-PAGE

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