

Recombinant Human CA1 Protein

Cat. No. CA1-811H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA1, transcript variant 1, was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.0. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Molecular Mass	30 kDa
Endotoxin	< 0.1 EU per µg protein as determined by LAL test
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name CA1 carbonic anhydrase I [Homo sapiens]

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_001128829

Protein Refseq NP_001122301

MIM 114800

UniProt ID P00915

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