

Active Recombinant Full Length Human CA1 Protein, His tagged

Cat. No. CA1-03HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length Human CA1 Protein (Ala2-Phe261) with a C-terminal 10-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-261 aa
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	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
Bio-activity	Measured by its esterase activity. The specific activity is > 10 pmol/min/µg, as measured under the described conditions.

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Endotoxin	< 1 EU/μg by LAL
Purity	> 95 %, by SDS-PAGE under reducing conditions and visualized by silver stain.
Applications	Enzyme Activity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Shipping	The product is shipped with polar packs.
N-terminal Sequence Analysis	Ala2

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_001128829
Protein Refseq	NP_001122301
MIM	114800

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UniProt ID

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