

Recombinant Human CA11, GST-tagged

Cat. No. CA11-10614H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA11 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	12-328a.a.
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. CA XI is likely a secreted protein, however, radical changes at active site residues completely conserved in CA isozymes with catalytic activity, make it unlikely that it has carbonic anhydrase activity. It shares properties in common with two other acatalytic CA isoforms, CA VIII and CA X. CA XI is most abundantly expressed in brain, and may play a general role in the central nervous system.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	CA11 carbonic anhydrase XI [Homo sapiens]
Official Symbol	CA11
Synonyms	CA11; carbonic anhydrase XI; carbonic anhydrase-related protein 11; CA RP XI; carbonic anhydrase related protein 2; carbonic anhydrase related protein XI; CARP2; CARPX1; CA-XI; CARP-2; CARP XI; CA-RP II; carbonic anhydrase-related protein 2; carbonic anhydrase-related protein XI;
Gene ID	770
mRNA Refseq	NM_001217
Protein Refseq	NP_001208
MIM	604644
UniProt ID	O75493
Chromosome Location	19q13.3
Function	NOT carbonate dehydratase activity;

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