

Recombinant Full Length Human CA5A Protein, GST-tagged

Cat. No. CA5A-2740HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CA5A full-length ORF (NP_001730.1, 1 a.a. - 305 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	305 amino acids
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 VA is localized in the mitochondria and expressed primarily in the liver. It may play an important role in ureagenesis and gluconeogenesis. CA5A gene maps to chromosome 16q24.3 and an unprocessed pseudogene has been assigned to 16p12-p11.2. [provided by RefSeq, Jul 2008]
Molecular Mass	61.2 kDa
AA Sequence	MLGRNTWKTSAFSFLVEQMWAPLWSRSMRPGRWCSQRSCAWQTSNNTLHPLWT VPVSVPGGTRQSPINIQWRDSVYDPQLKPLRVSYEAASCLYIWNTGYLFQVEFDDAT EASGISGGPLENHRYLKQFHFHWGAVNEGGSEHTVDGHAYPAELHLVHWNSVKYQ NYKEAVVGENGGLAVIGVFLKLGAAHQTLQRLVDILPEIKHKDARAAMRPFDPSTLLPT

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CWDYWTYAGSLTTPPLTESVTWIIQKEPVEVAPSQLSAFRTLFLFSALGEEEEKMMVNN
YRPLQPLMNRKVVASFQATNEGTRS

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CA5A carbonic anhydrase VA, mitochondrial [Homo sapiens]

Official Symbol

CA5A

Synonyms

CA5A; carbonic anhydrase VA, mitochondrial; CA5; carbonic anhydrase 5A, mitochondrial; CAV; CAVA; CA-VA; carbonic dehydratase; carbonate dehydratase VA; carbonic anhydrase V, mitochondrial;

Gene ID

763

mRNA Refseq

NM_001739

Protein Refseq

NP_001730

MIM

114761

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