

Recombinant Full Length Human CA5B Protein, GST-tagged

Cat. No. CA5B-2741HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CA5B full-length ORF (AAH28142, 1 a.a. - 317 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	317 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 VB is localized in the mitochondria and shows the highest sequence similarity to the other mitochondrial CA, CA VA. It has a wider tissue distribution than CA VA, which is restricted to the liver. The differences in tissue distribution suggest that the two mitochondrial carbonic anhydrases evolved to assume different physiologic roles. [provided by RefSeq, Jul 2008]
Molecular Mass	60.61 kDa
AA Sequence	MVVMNSLRVILQASPGKLLWRKFQIPRFMPARPCSLYTCTYKTRNRLHPLWESVD LVPGGDRQSPINIRWRDSVYDPGLKPLTISYDPATCLHVWNNGYSLVEFEDSTDKS VIKGGPLEHNYRLKQFHFHWGAIDAWGSEHTVDSKCFPAELHLVHWNVRFENFED

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AALEENGLAVIGVFLKLGKHHKELQKLVDTLPSIKHKDALVEFGSFDPSCLMPTCPDY
 WTYSGLTTPPLSESVTWIICKQPVEVDHDQLEQFRTLFTSEGEKEKRMVDNFRPL
 QPLMNRTVRSSFRHDYVLNVQAKPKPATSQATP

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

CA5B carbonic anhydrase VB, mitochondrial [Homo sapiens]

Official Symbol

CA5B

Synonyms

CA5B; carbonic anhydrase VB, mitochondrial; carbonic anhydrase 5B, mitochondrial;
 carbonic dehydratase; carbonate dehydratase VB; CA-VB; MGC39962;

Gene ID

11238

mRNA Refseq

NM_007220

Protein Refseq

NP_009151

MIM

300230

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UniProt ID

Q9Y2D0

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