

Recombinant Human CA5B Protein, GST-Tagged

Cat. No. CA5B-0243H **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	Wheat Germ
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 AALEENGLAVIGVFLKLGKHHKELQKLVDTLPSIKHKDALVEFGSFDPSCLMPTCPDY

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	WTYSGSLTTPPLSESVTWIHKQPVEVDHDQLEQFRTLFTSEGEKEKRMVDNFRPL 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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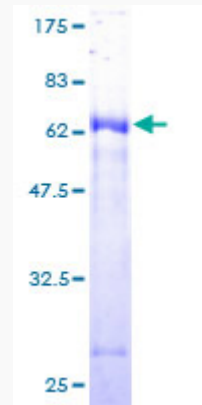
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UniProt ID

Q9Y2D0

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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