

## Recombinant Human CA5B Protein

**Cat. No.** CA5B-463H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CA5B(Cys34-Pro317) was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	34-317 a.a.
<b>Description</b>	<p>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.</p>
<b>Form</b>	20mM Tris-HCl, 100mM NaCl, pH 8.0. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
<b>Molecular Mass</b>	33.8 kDa

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**Endotoxin** < 0.1 EU per g protein as determined by LAL test

**Purity** >95% as determined by SDS-PAGE and Coomassie blue staining

**Concentration** >50 ug/mL as determined by microplate BCA method

## 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

**UniProt ID** Q9Y2D0

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