Recombinant Human CA5B Protein

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

SPECIFICATION

Product Overview	Recombinant Human CA5B(Cys34-Pro317) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	34-317 a.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 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.
Form	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.
Molecular Mass	33.8 kDa

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Endotoxin	< 0.1 EU per μg 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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