Recombinant Human CA5B, GST-tagged

Cat. No. CA5B-10623H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA5B protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-317a.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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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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
Chromosome Location	Xp22.1
Function	carbonate dehydratase activity; lyase activity; metal ion binding; zinc ion binding;

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