

Active Recombinant Human CA5B protein(Cys34-Pro317), His-tagged

Cat. No. CA5B-1125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA5B (Q9Y2D0) (Cys 34-Pro 317) was expressed in E. coli, fused with a polyhistidine tag at the C-terminus and an initial Met at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	Cys34-Pro317
Form	Lyophilized from sterile 20mM Tris, 50mM NaCl, 0.05% Brij-35, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its esterase activity. The specific activity is >150 pmoles/min/μg.
Molecular Mass	The recombinant human CA5B comprises 295 amino acids and migrates as an approximately 34 kDa band as predicted in SDS-PAGE under reducing conditions.
Purity	> 97 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CA5B carbonic anhydrase VB, mitochondrial [Homo sapiens]
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Official Symbol	CA5B
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Synonyms	CA5B; carbonic anhydrase VB, mitochondrial; carbonic anhydrase 5B, mitochondrial; carbonic dehydratase; carbonate dehydratase VB; CA-VB; MGC39962;
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Gene ID	11238
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mRNA Refseq	NM_007220
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Protein Refseq	NP_009151
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MIM	300230
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UniProt ID	Q9Y2D0
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