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## Datasheet for ABIN7318237 CA5B Protein (His tag)

### Overview

Quantity:	50 µg
Target:	CA5B
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA5B protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 5B/CA5B Protein (His Tag)
Sequence:	Cys34-Pro317
Characteristics:	Recombinant Human Carbonic Anhydrase 5B is produced by our E.coli expression system and the target gene encoding Cys34-Pro317 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	CA5B
Alternative Name:	Carbonic Anhydrase 5B/CA5B ( <a href="#">CA5B Products</a> )
Background:	Background: Carbonic Anhydrase 5B (CA5B) is a member of alpha-carbonic anhydrase family (CAs) that catalyze the reversible hydration of carbon dioxide. CAs is associated with many biological processes, including calcification, respiration, bone resorption, acid-base balance and

## Target Details

the formation of aqueous humor. CA5B is highly expressed in heart, pancreas, kidney, placenta, lung, and skeletal muscle, but it is restricted to the liver. CA5B is localized in the mitochondria and shows the highest sequence similarity to the other mitochondrial CA, CA-VA. CA5B is inhibited by coumarins, sulfonamide derivatives such as acetazolamide (AZA), saccharin, and Foscarnet.

Synonym: Carbonic Anhydrase 5B Mitochondrial, Carbonate Dehydratase VB, Carbonic Anhydrase VB, CA-VB, CA5B

Molecular Weight: 33.8 kDa

UniProt: [Q9Y2D0](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 100 mM NaCl, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.