

Recombinant Human Carbonic Anhydrase 5B/CA5B Protein (His Tag)



Catalog Number:PKSH032163

Note: Centrifuge before opening to ensure complete recovery of vial contents.

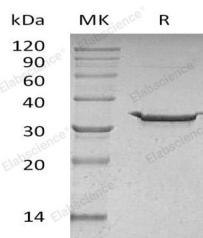
Description

Synonyms	Carbonic Anhydrase 5B Mitochondrial;Carbonate Dehydratase VB;Carbonic Anhydrase VB;CA-VB;CA5B
Species	Human
Expression Host	E.coli
Sequence	Cys34-Pro317
Accession	Q9Y2D0
Calculated Molecular Weight	33.8 kDa
Observed molecular weight	33 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 100mM NaCl, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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 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.

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