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

PKSH032163 Catalog No.

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 Q9Y2D0 Accession Calculated Molecular Weight 33.8 kDa Observed molecular weight 33 kDa Tag C-His

Bioactivity Not validated for activity

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.

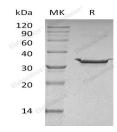
Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

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

For Research Use Only

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derivatives such as acetazolamide (AZA); saccharin; and Foscarnet.

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