Recombinant Human Carbonic Anhydrase 7/CA7 Protein (His Tag)

Catalog Number: PKSH032164

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

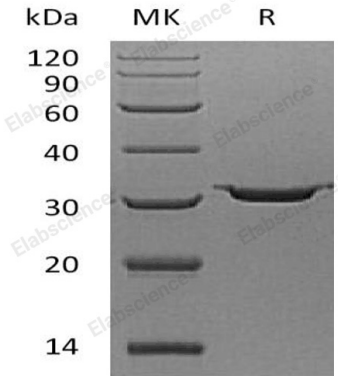
Description

Species	Human
Source	E.coli-derived Human Carbonic Anhydrase 7;CA7 protein Met 1-Ala264, with an C-terminal His
Calculated MW	30.7 kDa
Observed MW	31 kDa
Accession	P43166
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
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, 150mM NaCl, pH 8.0.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Carbonic Anhydrase 7 (CA7) is a member of the alpha-carbonic anhydrase family. Alpha-carbonic anhydrase is a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. Furthermore; Alpha-carbonic anhydrase is associated with many biological processes; including calcification; respiration; bone resorption; acid-base balance and the formation of aqueous humor. CA7 is activated by histamine; L-adrenaline; L- and D-histidine; and L- and D-phenylalanine; but it is inhibited coumarins; sulfonamide derivatives such as acetazolamide (AZA) by saccharin and Foscarnet.

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