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

Catalog No. PKSH032164

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

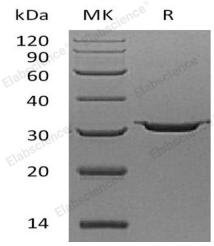
Description

Synonyms	Carbonic Anhydrase 7;Carbonate Dehydratase VII;Carbonic Anhydrase VII;CA-VII;CA7;CAVII
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ala264
Accession	P43166
Calculated Molecular Weight	30.7 kDa
Observed molecular weight	31 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, 150mM NaCl, pH 8.0.
Reconstitution	Not Applicable

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

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