

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



Catalog Number:PKSH032164

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

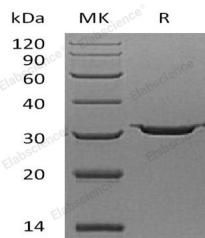
Description

| | |
|------------------------------------|--|
| 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 |

Properties

| | |
|-----------------------|--|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per μ g 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 μ m 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 Foscarnet.

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