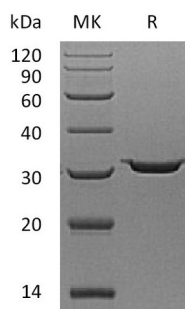


Product Name: Recombinant Human Carbonic Anhydrase 7 (C-6His)
Catalog #: PEH0215

Summary

Name	Carbonic Anhydrase VII/CA7
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Carbonic Anhydrase 7 is produced by our E.coli expression system and the target gene encoding Met1-Ala264 is expressed with a 6His tag at the C-terminus.
Accession #	P43166
Host	E.coli
Species	Human
Predicted Molecular Mass	30.72 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	Carbonic Anhydrase 7; Carbonate Dehydratase VII; Carbonic Anhydrase VII; CA-VII; CA7
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



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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.

Note

For Research Use Only , Not for Diagnostic Use.