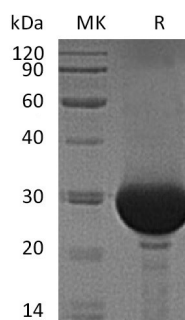


Product Name: Recombinant Human Carbonic Anhydrase 1 (C-6His)
Catalog #: PEH0212

Summary

Name	Carbonic Anhydrase 1/CA1/CA-I
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/ μ g as determined by LAL test.
Construction	Recombinant Human Carbonic Anhydrase 1 is produced by our E.coli expression system and the target gene encoding Ala2-Phe261 is expressed with a 6His tag at the C-terminus.
Accession #	P00915
Host	E.coli
Species	Human
Predicted Molecular Mass	29.93 KDa
Formulation	Supplied as a 0.2 μ m filtered solution of 12.5mM Tris-HCl, 75mM NaCl, pH 7.5.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at \leq -70°C, stable for 6 months after receipt. Store at \leq -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 1; Carbonate Dehydratase I; Carbonic Anhydrase B; CAB; Carbonic Anhydrase I; CA-I; CA1
Background	Carbonic Anhydrase 1 (CA1) is a cytosolic enzyme, belonging to the alpha-carbonic anhydrase family. It is highly expressed in erythrocytes and acts as an early marker

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for erythroid differentiation. Carbonic anhydrase 1 plays a important role in many biological processes such as calcification, cellular respiration, bone resorption, acid-base balance. It is activated by imidazole, histamine, L-adrenaline, L- and D-histidine, and L- and D-phenylalanine. At the same time, It is inhibited by sulfonamide derivatives and coumarins. In addition, CA1 is a zinc metalloenzyme that has reversible hydration of carbon dioxide. It can hydrate cyanamide to urea.

Note

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