Recombinant Human Carbonic anhydrase 2 Protein

Catalog No.: RP00034

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Sequence Information

Species	Gene ID
Human	760
Swiss Prot	**Tags**
P00918	No tag

Synonyms

CA2, CA-II, CAC, CAII, Car2, HEL-76, HEL-S-282, carbonic anhydrase 2,CA-II,CAC,CAII,Car2, HEL-76,HEL-S-282

Product Information

Source	Purification
E. coli	≥ 90 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
29.11 kDa	30 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The carbonic anhydrases (or carbonate dehydratases) are classified as metalloenzyme for its zinc ion prosthetic group and form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible reaction that takes part in maintaining acid-base balance in blood and other tissues. CA2 is a cytosolic enzyme with the highest activity among all known CAs. Mutations in the CA2 gene result in the CA II deficiency syndrome, an autosomal recessive disorder that produces osteopetrosis, renal tubular acidosis and cerebral calcification.

Basic Information

Description

Recombinant Human Carbonic anhydrase 2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser2-Lys260) of human Carbonic anhydrase II (Accession #NP_000058.1).

Activity

Measured by its esterase activity. The specific activity is >840 pmoles/min/μg, as measured with 1 mM 4-Nitrophenyl acetate and 0.1 μg enzyme at 400 nm in 100 μL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

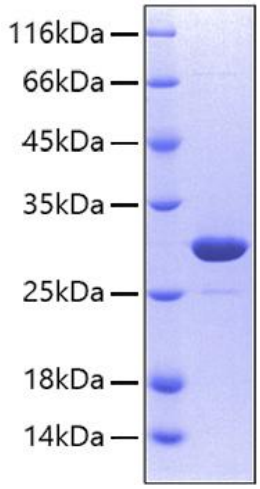
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Carbonic anhydrase 2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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