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Recombinant human Carbonic Anhydrase 1/CA1 protein

Catalog Number: ATGP0427

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-261aa

UniProt No.

P00915

NCBI Accession No.

NP 001122301

Alternative Names

Carbonic anhydrase I, CA-I, Carbonate dehydratase I, Carbonic anhydrase B, CAB, Cyanamide hydratase CA1, Car1

PRODUCT SPECIFICATION

Molecular Weight

31.0 kDa (281aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Carbonic anhydrase 1 (CA1) is a zinc metalloenzyme that catalyses reversible hydration of CO2 (CO2 + H2O HCO3- + H+). This protein is fundamental to many biological processes such as cellular respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, salvia, and gastric acid. It is most abundant in erythrocytes and is a very early marker for erythroid differentiation. Recombinant human Carbonic anhydrase1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using



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conventional chromatography.

Amino acid Sequence

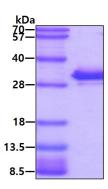
<MGSSHHHHHH SSGLVPRGSH> MASPDWGYDD KNGPEQWSKL YPIANGNNQS PVDIKTSETK HDTSLKPISV SYNPATAKEI INVGHSFHVN FEDNDNRSVL KGGPFSDSYR LFQFHFHWGS TNEHGSEHTV DGVKYSAELH VAHWNSAKYS SLAEAASKAD GLAVIGVLMK VGEANPKLQK VLDALQAIKT KGKRAPFTNF DPSTLLPSSL DFWTYPGSLT HPPLYESVTW IICKESISVS SEQLAQFRSL LSNVEGDNAV PMQHNNRPTQ PLKGRTVRAS F

General References

Nogradi A., et al. (1998). Am J Pathol. 153:1-4 Ferry JG., et al. (1999). Proc Natl Acad Sci u S A. 96(26):15184-9.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

