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32-7092: Recombinant Human Carbonic Anhydrase 1/CA1 (C-6His)(Discontinued)

Gene ID: 759 **Uniprot ID:** P00915

Description

Source: E.coli. MW:29.93kD.

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. 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 for erythroid differentiation. Carbonic anhydrase 1 plays a improtant 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.

Product Info

Amount : $10 \mu g / 50 \mu g$

Content: Supplied as a 0.2 μm filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 8.0. **Storage condition:** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid: ASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHSFHVNFEDND

NRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYSAELHVAHWNSAKYSSLAEAASKADGLAVIGV LMKVGEANPKLQKVLDALQAIKTKGKRAPFTNFDPSTLLPSSLDFWTYPGSLTHPPLYESVTWIICKESISVSSEQ

LAOFRSLLSNVEGDNAVPMOHNNRPTOPLKGRTVRASFLEHHHHHH

Application Note

Endotoxin : Less than $0.1 \text{ ng/}\tilde{\mathbb{A}} \| \hat{\mathbb{A}} \mu g$ (1 IEU/ $\tilde{\mathbb{A}} \| \hat{\mathbb{A}} \mu g$) as determined by LAL test. **Biological Activity :** Specific Activity is greater than 780.34pmol/min/ug