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Carbonic anhydrase 1, 1-261 aa, Human, His tag, E.coli

产品货号: TP01423

第三版

别名:CA1, CA-I, CAB

**描述:**Carbonic anhydrase (CA) is an enzyme that catalyses rapid conversion of carbon dioxide to bicarbonate and protons ( $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{HCO}_3^- + \text{H}^+$ ). Most carbonic anhydrases contain a zinc ion in their active site and the primary function of this enzyme is known to maintain acid-base balance in blood and other tissues, and to help transport carbon dioxide of tissues. Carbonic anhydrases have been found in all kingdoms of life. Recombinant carbonic anhydrase fused to His-tag, was expressed in E.coli and purified by conventional chromatography techniques.

**配方:**Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

**分子量:**31.0 kDa (281aa), confirmed by MALDI-TOF

**序列:**

MGSSHHHHHSSGLVPRGSHMASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKE  
IINVGHSFHVNFEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYS AELHVAHWNSAKYSSLAE AASK  
ADGLAVIGVLMKVGEANPKLQKVL DALQAIKTKGKRAPFTN FDPSTLLPSSLD FWTYPGSLTHPPLYESVTWIICKESISVSS  
EQLAQFRSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRASF

**纯度:**> 95% by HPLC

**浓度:**1 mg/ml (determined by Bradford assay)

**内毒素:**<1.0 EU per 1 ug of protein (determined by LAL method)

**存储:**+4 ° C 保存 (1-2 周). 长期保存在-20 ° C或者-70 ° C. 避免反复冻融.