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Carbonic anhydrase, 1-220 aa, E.coli, His tag, E.coli

产品货号: TP01426

第三版

别名: Carbonate dehydratase, CAN, yadF

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 1 mM DTT, 10% glycerol

分子量: 27kDa (240aa), confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMKDIDTLISNNALWSKMLVEEDPGFFEKLAQAQKPRFLWIGCSDSRVPAERLTGLEPGEL
FVHRNVANLVIHTDLNCLSVVQYAVDVLEVEHIIICGHYCGGVQAAVENPELGLINNWLLHIRDIWFKHSSLLGEMPQ
ERRLDLCELNVMEQVYNLGHSTIMQSAWKRGQKVTIHGWAYGIHDGLLRDLVDVTATNRETLEQRYRHGISNLKPKHA
NHK

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.