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CA14, 16-290aa, Human, His tag, E.coli

产品货号: TP01391

第三版

别名:Carbonic anhydrase 14, CAXiV

描述:Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA14 is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII; however, they have different patterns of tissue-specific expression and thus may play different physiologic roles. Recombinant human CA14 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

分子量:33.2kDa (298aa) confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMGSADGGQHWTYEGPHGQDHWPAYPECGNNAQSPIDIQTDSVTFDPDLPALQPHG
YDQPGTEPLDLHNNGHTVQLSLPSTLYLGGLPRKYVAAQLHLHWGQKGGSEHQINSEATFAELHIVHYDSDSYDSLS
EAAERPQGLAVLGILIEVGETKNIAIEHILSHLHEVRHKDQKTSVPPFNRELLPKQLGQYFRYNGSLTTPPCYQSVLWTVF
YRRSQISMEQLEKLQGTLFSTEEPSKLLVQNYRALQPLNQRMVFAFIQAGSSYTTGEM

纯度:> 95% by HPLC

浓度:0.5 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.