

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

Cat.NO.: TP01424

3th Edition

Synonyms:CA1, CA-I, CAB

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, saliva, and gastric acid.

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

Molecular Weight:31.0 kDa (281aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNP
ATAKEIINVGHSHFVNFEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYSAELHVAHWNSAKY
SSLAEAASKADGLAVIGVLMKVGEANPKLQKVLDALQAIKTKGKRAPFTNFDPSTLLPSSLDFTWYPGSLTHPPLYE
SVTWIICKESISVSSEQLAQFRSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRASF

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.