

32-6685: CA1 E.Coli

Alternative Name : Carbonate dehydratase, CAN, ECK0125, JW0122, yadF, CA 1, CA I, CA1, CAI, Car 1, Car1, Carbonate dehydratase I, Carbonic anhydrase 1, Carbonic anhydrase B.

Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

CA, also known as carbonic anhydrase is an enzyme that functions around the involvement of $\text{CO}_2 + \text{H}_2\text{O}$ to $\text{HCO}_3^- + \text{H}^+$ (conversion of CO_2 to bicarbonate & protons). This enzyme holds a Zn ion as part of its active site. The central function of CA is to preserve the acid-base homeostasis within the blood and various organs. carbonic anhydrase assists Carbonic Anhydrase I to move CO_2 to and from tissues.

CA1 E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 240 amino acids (1-220) and having a molecular mass of 27.0 kDa. CA1 E.Coli is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 5 µg / 20 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : CA1 E.Coli protein (1mg/ml) is formulated in 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MKDIDTLISN NALWSKMLVE EDPGFFEKLA QAQKPRFLWI
GCSDSRVPAE RLTGLEPGEL FVHRNVANLV IHTDLNCLSV VQYAVDVLEV EHIIICGHYG CGGVQAAVEN
PELGLINNWL LHIRDIWFKH SLLGEMPQE RRLDTLCELN VMEQVYNLGH STIMQSAWKR GQKVTHGWA
YGIHDGLLRD LDVTATNRET LEQRYRHGIS NLKLKHANHK.