

## 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  $\text{CO}_2$  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  $\text{CO}_2$  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

<b>Amount :</b>	5 $\mu\text{g}$ / 20 $\mu\text{g}$
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	CA1 E.Coli protein (1mg/ml) is formulated in 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MKDIDTLISN NALWSKMLVE EDPGFFEKLA QAQKPRFLWI GCSDSRVPAE RLTGLEPGEL FVHRNVANLV IHTDLNCLSV VQYAVDVLEV EHIICGHYG CGGVQAAVEN PELGLINWNL LHIRDIWFKH SLLGEMPQE RRLDTLCELN VMEQVYNLGH STIMQSAWKR GQKVTIHGWA YGIHDGLLRD LDVTATNRET LEQRYRHGIS NLKCLKHANHK.