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## 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 CO2 + H2O to HCO3- + H+ (conversion of CO2 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 CO2 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

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|---|---|
| **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 SSLLGEMPQE RRLDTLCELN VMEQVYNLGH STIMQSAWKR GQKVTIHGWA YGIHDGLLRD LDVTATNRET LEQRYRHGIS NLKLKHANHK. |

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