
Product Data Sheet

Product Name: CA1 E.Coli
 Cat. No.: GP26134
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Carbonate dehydratase, CAN, ECK0125, JW0122, yadF, CA 1, CA I, CA1, CAI, Car 1, Car1, Carbonate dehydratase I, Carbonic anhydrase 1, Carbonic anhydrase B.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKDIDTLISN NALWSKMLVE EDPGFFEKLA QAQKPRFLWI GCSDSRVPAE RLTGLEPGEL FVHRNVANLV IHTDLNCLSV VQYAVDVLEV EHIICGHYG CGGVQAAVEN PELGLINNWL LHIRDIWFKH SLLGEMPQE RRLDTLCELN VMEQVYNLGH STIMQSAWKR GQKVTIHGWA YGIHDGLLRD LDVTATNRET LEQRYRHGIS NLKCLKHANHK.		
Formulation	CA1 E.Coli protein (1mg/ml) is formulated in 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.		

Introduction

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.

Stability

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

Background

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

Caution: Product has not been fully validated for medical applications. For research use only.

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chromatographic techniques.

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