Recombinant E.coli Carbonic anhydrase 2/CA2 protein

Catalog Number: CAN0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-220aa

UniProt No.
P61517

NCBI Accession No.
NP_414668

Alternative Names
Carbonate dehydratase, CAN, ECK0125, JW0122, yadF

PRODUCT SPECIFICATION

Molecular Weight
27.2 kDa (240aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Carbonic anhydrase (CA) is an enzyme that catalyses rapid conversion of carbon dioxide to bicarbonate and protons (CO2 + H2O HCO3- + H+). Most carbonic anhydrases contain a zinc ion in their active site and the primary function of this enzyme is known to maintain acid-base balance in blood and other tissues, and to help transport carbon dioxide of tissues. Carbonic anhydrases have been found in all kingdoms of life. Recombinant carbonic anhydrase fused to His-tag, was expressed in E. coli and purified by conventional chromatography techniques.

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Amino acid Sequence

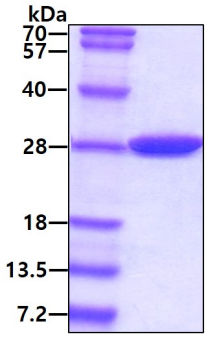
<MGSSHHHHHH SSGLVPRGSH> MKDIDTLISN NALWSKMLVE EDPGFFEKLA QAQKPRFLWI GCSDSRVPAE RLTGLEPGEL FVHRNVANLV IHTDLNCLSV VQYAVDVLEV EHIIICGHYG CGGVQAAVEN PELGLINNWL LHIRDIWFKH SSLLGEMPQE RRLDTLCELN VMEQVYNLGH STIMQSAWKR GQKVTIHGWA YGIHDGLLRD LDVTATNRET LEQRYRHGIS NLKLKHANHK

General References

Lindskog S., et al :(1997) Pharmacol Ther.74(1):1-20.
Sawaya MR., et al (2006) J Biol Chem. 281(11):7546-55

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain