

E. coli Recombinant Carbonic anhydrase
Carbonate dehydratase, CAN, yadF
Catalog # PBV11529r**Specification**

E. coli Recombinant Carbonic anhydrase - Product info

Primary Accession [P61517](#)
Calculated MW 27 kDa KDa

E. coli Recombinant Carbonic anhydrase - Additional Info

Gene ID 75202059;944832

Other Names

Carbonate dehydratase, CAN, yadF

Gene Source

Source

Assay&Purity

Recombinant

Sequence

E. coli

E. coli

SDS-PAGE;> 95%

Yes

**MGSSHHHHHH SSGLVPRGSH MKDIDTLISN
NALWSKMLVE EDPGFFEKLA QAQKPRFLWI
GCSDSRVP AE RLTGLEPGEL FVHRNVANLV
IHTDLNCLSV VQYAVDVLEV EHHICGHYG
CGGVQAAVEN PELGLINNWL LHIRDIWFKH
SLLGEMPQE RRLDTLCELN VMEQVYNLGH
STIMQSAWKR GQKVTIHGWA YGIHDGLLRD
LDVTATNRET LEQRYRHGIS NLKLKHANHK**

Target/Specificity

can

Format

Liquid

Storage

-20°C;In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol

E. coli Recombinant Carbonic anhydrase - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

E. coli Recombinant Carbonic anhydrase - Images**E. coli Recombinant Carbonic anhydrase - Background**

Carbonic anhydrase (CA) is an enzyme that catalyses rapid conversion of carbon dioxide to bicarbonate and protons ($\text{CO}_2 + \text{H}_2\text{O} \leftrightarrow \text{HCO}_3^- + \text{H}^+$). 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.