

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

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**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 EHIICGHYG  
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.