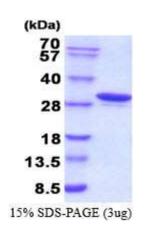
E. coli Recombinant Carbonic anhydrase

CATALOG NO:	P1049-10 P1049-50	10 µg 50 µg
ALTERNATE NAMES:	Carbonate dehydratase, CAN, yadF	
CONCENTRATION:	1 mg/ml (determined by Bradford assay)	
SOURCE:	<i>E.coli</i> expressed recombinant Carbonic anhydrase protein, fused to His-tag at N-terminus (1-220aa).	
PURITY:	> 95% by SDS-PAGE	
MOL. WEIGHT:	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 27 kDa (240aa).	
FORM:	Liquid	
FORMULATION:	In 20 mM Tris-H glycerol	HCI buffer (pH8.0) containing 1mM DTT, 10%
STORAGE CONDITIONS:	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.	
SEQUENCE:	EDPGFFEKLA (FVHRNVANLV CGGVQAAVEN RRLDTLCELN V	SSGLVPRGSH MKDIDTLISN NALWSKMLVE QAQKPRFLWI GCSDSRVPAE RLTGLEPGEL IHTDLNCLSV VQYAVDVLEV EHIIICGHYG PELGLINNWL LHIRDIWFKH SSLLGEMPQE /MEQVYNLGH STIMQSAWKR GQKVTIHGWA DVTATNRET LEQRYRHGIS NLKLKHANHK
DESCRIPTION:	conversion of car H2O ↔ HCO3- ion in their active known to maintai and to help tra anhydrases have carbonic anhydra	ase (CA) is an enzyme that catalyses rapid bon dioxide to bicarbonate and protons (CO2 + + H+). Most carbonic anhydrases contain a zinc site and the primary function of this enzyme is n acid-base balance in blood and other tissues, ansport carbon dioxide of tissues. Carbonic been found in all kingdoms of life. Recombinant se fused to His-tag, was expressed in E.coli and ntional chromatography techniques.
BIOLOGICAL ACTIVITY:	Specific activity	is >1,000 pmol/min/ug, and is defined as the

BIOLOGICAL ACTIVITY: Specific activity is >1,000 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of 4-nitrophenyl acetate to 4-nitrophenol per minute at pH 7.5 at 37C.



E. coli recombinant CA1

RELATED PRODUCT:

- Human CellExp[™] CA2, human recombinant (Cat. No. 7479-10, -50)
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- Human CellExp[™] CA9, human recombinant (Cat. No. 7478-10)
- Human CellExp[™] CA10, human recombinant (Cat. No. 7485-10)
- Human Recombinant Carbonic anhydrase 2 (Cat. No. 6390-100)
- Carbonic Anhydrase 3 /CA3, human recombinant (Cat. No. 7833-10, -50)
- MMP-1, human recombinant (Cat. No. 7781-10, 50, 1000)
- MMP-2, human recombinant (Cat. No. 7782-10, 50, 1000)
- MMP-3, human recombinant (Cat. No. 7783-10, 50, 1000)
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FOR RESEARCH USE ONLY! Not to be used on humans.

