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Datasheet for ABIN5854197

## CA13 Protein (AA 1-262) (His tag)

### 1 Image

#### Overview

Quantity:	50 µg
Target:	CA13
Protein Characteristics:	AA 1-262
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA13 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

#### Product Details

Sequence:	MGSSHHHHHH SGLVPRGSP MGSMSRLSWG YREHNGPIHW KEFFPIADGD QQSPIEIKTK EVKYDSSLRP LSIKYDPSSA KIISNSGHSF NVDFDDTENK SVLRGGPLTG SYRLRQVHLH WGSADDHGSE HIVDGVSYAA ELHVVHWNSD KYPSFVEAAH EPDGLAVLGV FLQIGEPNSQ LQKITDTLDS IKEKGKQTRF TNFDLLSLLP PSWDYWTYPG SLTVPPLLES VTWIVLKQPI NISSQQLAKF RLLCTAEGE AAFLVSNHR PPQPLKGRKV RASFH
Purity:	> 90 % by SDS - PAGE
Biological Activity Comment:	Specific activity is > 2,500 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.

## Target Details

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Target:	CA13
Alternative Name:	CA13 ( <a href="#">CA13 Products</a> )
Background:	<p>CA13 also known as carbonic anhydrase 13 belongs to the alpha-carbonic anhydrase family. The carbonic anhydrase from a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible reaction that occurs relatively slowly in the absence of catalyst. The active site of most carbonic anhydrases contains a zinc ion, they are classified as metalloenzymes. There are at least five distinct CA families (alpha, beta, gamma, delta, and epsilon). These families have no significant amino acid sequence similarity and in most cases are thought to be an example of convergent evolution. The alpha-CAs are found in humans. Recombinant human CA13, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.</p>
Molecular Weight:	31.8kDa (285aa) confirmed by MALDI-TOF
NCBI Accession:	<a href="#">NP_940986</a>
UniProt:	<a href="#">Q8N1Q1</a>

## Application Details

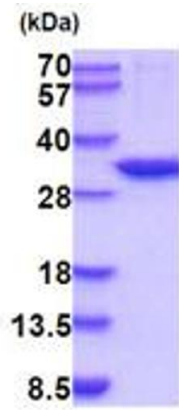
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Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid, In Phosphate buffered saline ( pH 7.4) containing 10 % glycerol, 1 mM DTT
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

### SDS-PAGE

Image 1.