

## Product datasheet

# Recombinant human Carbonic Anhydrase 1/CA1 protein ab208320

[1 Image](#)

### Description

<b>Product name</b>	Recombinant human Carbonic Anhydrase 1/CA1 protein
<b>Biological activity</b>	Specific activity is > 300 pmol/min/μg, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of 4-nitrophenyl acetate to 4-nitrophenol per minute at pH 8.0 at 37°C.
<b>Purity</b>	> 95 % SDS-PAGE. ab208320 was purified by conventional chromatography techniques.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P00915</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHH SSGLVPRGSH MASPDWGYDD KNGPEQWSKL YPIANGNNQS PVDIKTSETK HDTSLKPISV SYNPAKEI INVGHSFHVN FEDNDNRSVL KGGPFSDSYR LFQHFHWGS TNEHGSEHTV DGVKYSAELH VAHWNSAKYS SLAEAASKAD GLAVIGVLMK VGEANPKLQK VLDALQAIKT KGKRAPFTNF DPSTLLPSSL DFWTYPGSLT HPPLYESVTW IICKESISVS SEQLAQFRSL LSNVEGDNAV PMQHNNRPTQ PLKGRTVRAS F
<b>Predicted molecular weight</b>	31 kDa including tags
<b>Amino acids</b>	1 to 261
<b>Tags</b>	His tag N-Terminus
<b>Additional sequence information</b>	NP_001122301

### Specifications

Our **Abpromise guarantee** covers the use of **ab208320** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Mass Spectrometry

	SDS-PAGE
	Functional Studies
<b>Mass spectrometry</b>	MALDI-TOF
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as Carbonic Anhydrase I

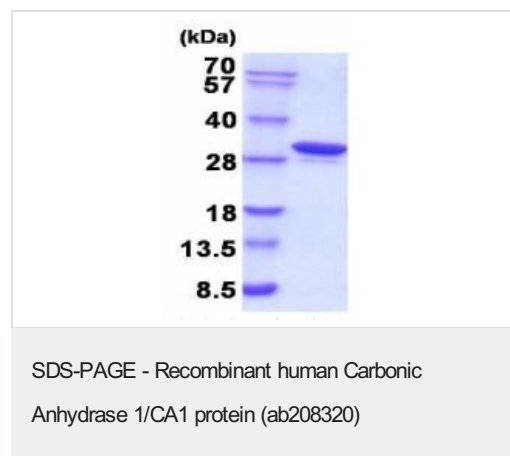
## Preparation and Storage

<b>Stability and Storage</b>	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Constituents: 10% Glycerol (glycerin, glycerine), 0.02% DTT, 0.32% Tris HCl</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
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## General Info

<b>Function</b>	Reversible hydration of carbon dioxide. Can hydrates cyanamide to urea.
<b>Sequence similarities</b>	Belongs to the alpha-carbonic anhydrase family.
<b>Cellular localization</b>	Cytoplasm.

## Images



15% SDS-PAGE analysis of ab208320 (3 µg).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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