



# Recombinant Human CA1 Protein [GST] (CA1-0227H)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Human CA1 full-length ORF ( AAH27890, 1 a.a. - 261 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Purity</b>	Glutathione Sepharose 4 Fast Flow
<b>Conjugate</b>	GST
<b>Applications</b>	ELISA, WB, AP
<b>Molecular Weight</b>	54.45 kDa
<b>Format</b>	Liquid
<b>Size</b>	10 µg, 25 µg
<b>Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Preservative</b>	None
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## BACKGROUND

<b>Introduction</b>	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva and gastric acid. They show extensive diversity in
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tissue distribution and in their subcellular localization. This CA1 gene is closely linked to the CA2 and CA3 genes on chromosome 8. It encodes a cytosolic protein that is found at the highest level in erythrocytes. Allelic variants of this gene have been described in some populations.

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**Keywords**

CA1; carbonic anhydrase I; carbonic anhydrase 1; Car1; CA-I

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## GENE INFORMATION

**Protein Refseq**

MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHSHVNF

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