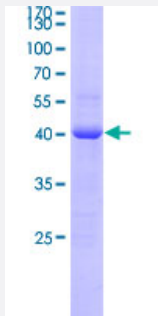


CA1 (Human) Recombinant Protein (Q01)

Catalog # H00000759-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CA1 partial ORF (AAH27890.1, 12 a.a. - 150 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	NGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHSHFVNFEDNDNRS VLKGGPFSDSYRLFQHFHWGSTNEHGSEHTVDGVKYSaelhVAHWNSAKYSSLAEAASKADG LAVIGVLMK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	40.92
Interspecies Antigen Sequence	Mouse (79); Rat (83)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CA1

Entrez GeneID [759](#)

GeneBank Accession# [BC027890.1](#)

Protein Accession# [AAH27890.1](#)

Gene Name CA1

Gene Alias Car1

Gene Description carbonic anhydrase I

Omim ID [114800](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 tissue distribution and in their subcellular localization. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Variants of this gene have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyA_sites have been described in literature. [provided by RefSeq]

Other Designations carbonic dehydratase

Pathway

- [Nitrogen metabolism](#)

Disease

- [Diabetic Retinopathy](#)