

## Product datasheet for TP306616L

### Carbonic Anhydrase I (CA1) (NM\_001738) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human carbonic anhydrase I (CA1), transcript variant 2, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC206616 protein sequence  
Red=Cloning site Green=Tags(s)

MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSEKHDTSCLKPISVSYNPATAKEIINVGHFSFHVN  
FEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYSaelHVAHWNSAKYSSLAEAASKAD  
GLAVIGVLMKVGEANPKLQKVLDAALQAIKTKGKRAPFTNFDPTLLPSSLDFTWYPGSLTHPPLYESVTW  
IICKESISVSSEQLAQFRSLLSNVEGDNAVPMQHNNRPTQLKGRTRASF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 28.7 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001729](#)

**Locus ID:** 759

**UniProt ID:** [P00915](#), [V9HWE3](#)



[View online »](#)

RefSeq Size: 1319

Cytogenetics: 8q21.2

RefSeq ORF: 783

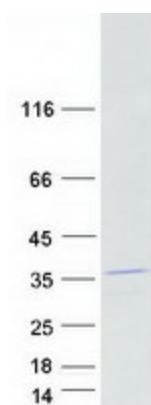
Synonyms: CA-I; CAB; Car1; HEL-S-11

**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. 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. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Nov 2016]

**Protein Families:** Druggable Genome

**Protein Pathways:** Nitrogen metabolism

### Product images:



Coomassie blue staining of purified CA1 protein (Cat# [TP306616]). The protein was produced from HEK293T cells transfected with CA1 cDNA clone (Cat# [RC206616]) using MegaTran 2.0 (Cat# [TT210002]).