

## Product datasheet for **TP301974**

### Carbonic Anhydrase II (CA2) (NM\_000067) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carbonic anhydrase II (CA2), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201974 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDTHTAKYDPSLKPLSVSYDQATSLRILNNGHAFNVEF DDSQDKAVLKGGPLDGTYRLIQFHFHWGSLDGQGSEHTVDKKKYAAELHLVHWNTKYGDFGKAVQQPDGL AVLGIFLKVGSAPGLQKVVDVLDISIKTKGKSADFTNFAARGLLPESLDYWTYPGSLTTPPLECVTWIV LKEPISVSSEQVLKFRKLNFNNGEGEPEELMVDNWRPAQPLKNRQIKASFK</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	29.1 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:	<a href="#">NP_000058</a>
Locus ID:	760
UniProt ID:	<a href="#">P00918</a> , <a href="#">V9HW21</a>



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RefSeq Size: 1666

Cytogenetics: 8q21.2

RefSeq ORF: 780

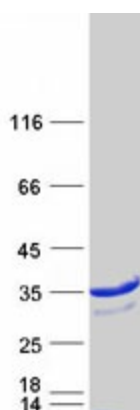
Synonyms: CA-II; CAC; CAII; Car2; HEL-76; HEL-S-282

**Summary:** The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]

**Protein Families:** Druggable Genome

**Protein Pathways:** Nitrogen metabolism

### Product images:



Coomassie blue staining of purified CA2 protein (Cat# TP301974). The protein was produced from HEK293T cells transfected with CA2 cDNA clone (Cat# [RC201974]) using MegaTran 2.0 (Cat# [TT210002]).