

## Product datasheet for **TP720090L**

### Carbonic Anhydrase IV (CA4) (NM\_000717) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carbonic anhydrase IV (CA4)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Ala19-Lys283
Tag:	C-His
Predicted MW:	31.4 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	< 0.1 EU per µg protein as determined by LAL test
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_000708</a>
Locus ID:	762
UniProt ID:	<a href="#">P22748</a>
Cytogenetics:	17q23.1
Synonyms:	CAIV; Car4; RP17



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**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 gene encodes a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Nitrogen metabolism

**Product images:**