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# Product datasheet for TP720955

## Carbonic Anhydrase XIV (CA14) (NM_012113) Human Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Human carbonic anhydrase XIV (CA14) |
| **Species:** | Human |
| **Expression Host:** | E. coli |
| **Expression cDNA Clone or AA Sequence:** | Gly19-Met290 |
| **Tag:** | N-His |
| **Predicted MW:** | 32.8 kDa |
| **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:** | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg) |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for at least 3 months from date of receipt under proper storage and handling conditions. |
| **RefSeq:** | NP_036245 |
| **Locus ID:** | 23632 |
| **UniProt ID:** | Q9ULX7, A8K3J4 |
| **RefSeq Size:** | 1757 |
| **Cytogenetics:** | 1q21.2 |
| **RefSeq ORF:** | 1011 |
| **Synonyms:** | CAXiV |

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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. CA XIV is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII; however, they have different patterns of tissue-specific expression and thus may play different physiologic roles. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Nitrogen metabolism

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