

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:	Supplied as a 0.2 um filtered solution of 20mM Tris, 150mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
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
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