

Recombinant Full Length Human CA9 Protein, C-Flag-tagged

Cat. No. CA9-1712HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CA9 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	45.8 kDa
AA Sequence	MAPLCPSPWLP LLIPAPAPGLTVQLLLSLLLLMPVHPQRLPRMQEDSPLGGGSSGED DPLGEEDLPSEED SPREEDPPGEEDLPGEEDLPGEEDLPEVKPKSEEEGSLKLEDL

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PTVEAPGDPQEPQNNHRDKEGDDQSH WRYGGDPPWPRVSPACAGRFQSPVDI
 RPQLAAFCPALRPLELLGFQLPPLPELRLRNNGHSVQLTLPPGL EMALGPGREYRA
 LQLHLHWGAAGRPGSEHTVEGHRFP AEIHVVHLSTAFARVDEALGRP GGLAVLAAF
 LE EGPEENSAYEQLLSRLEEIAEEGSETQVPGLDISALLPSDFSRYFQYEGSLTTPP
 CAQGVIVTVFNQTVMLSAKQLHTLSDTLWGP GDSRLQLNFRATQPLNGRVIEASFP
 AGVDSSPRAAEPVQLNSCLAAGDILALVF
 GLLFAVTSVAFLVQMRRQHRRGTKGGVSYRPAEVAETGATRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Nitrogen metabolism
Full Length	Full L.

GENE INFORMATION

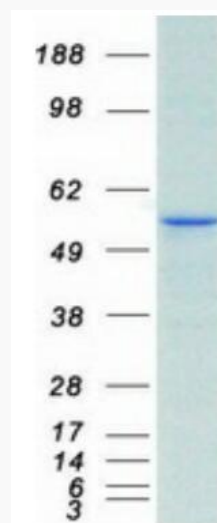
Gene Name CA9 carbonic anhydrase 9 [Homo sapiens (human)]

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Official Symbol	CA9
Synonyms	MN; CAIX
Gene ID	768
mRNA Refseq	NM_001216.3
Protein Refseq	NP_001207.2
MIM	603179
UniProt ID	Q16790



Coomassie blue staining of purified CA9 protein.