Recombinant Human CA5A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CA5A-2562H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CA5A MS Standard C13 and N15-labeled recombinant protein (NP_001730) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 VA is localized in the mitochondria and expressed primarily in the liver. It may play an important role in ureagenesis and gluconeogenesis. CA5A gene maps to chromosome 16q24.3 and an unprocessed pseudogene has been assigned to 16p12-p11.2.
Molecular Mass	34.75 kDa
AA Sequence	MLGRNTWKTSAFSFLVEQMWAPLWSRSMRPGRWCSQRSCAWQTSNNTLHPLWT VPVSVPGGTRQSPINIQWRDSVYDPQLKPLRVSYEAASCLYIWNTGYLFQVEFDDAT EASGISGGPLENHYRLKQFHFHWGAVNEGGSEHTVDGHAYPAELHLVHWNSVKYQ NYKEAVVGENGLAVIGVFLKLGAHHQTLQRLVDILPEIKHKDARAAMRPFDPSTLLPT

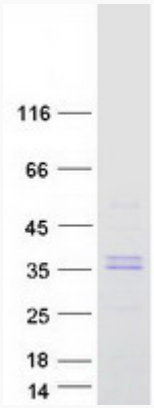
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	CWDYWTYAGSLTTPPLTESVTWIIQKEPVEVAPSQLSAFRTLLFSALGEEEKMMVNN YRPLQPLMNRKVWASFQATNEGTRSSGPTRTRRLEQKLISEEDLAANDILDYKDDD DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CA5A carbonic anhydrase 5A [Homo sapiens (human)]
Official Symbol	CA5A
Synonyms	CA5A; carbonic anhydrase VA, mitochondrial; CA5; carbonic anhydrase 5A, mitochondrial; CAV; CAVA; CA-VA; carbonic dehydratase; carbonate dehydratase VA; carbonic anhydrase V, mitochondrial;
Gene ID	763
mRNA Refseq	NM_001739
Protein Refseq	NP_001730

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MIM	114761
UniProt ID	P35218
SDS-PAGE	

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