

Active Recombinant Human CA12 protein, His-tagged

Cat. No. CA12-261H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CA12 protein(NP_001209.1) (Met 1-Gln 291) was expressed in HEK293 with a C-terminal polyhistidine tag.
Species	Human
Source	HEK293
ProteinLength	1-291 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	Measured by its esterase activity. The specific activity is >40 pmoles/min/μg, as measured with 1 mM 4-Nitrophenyl acetate and 2.5 μg enzyme at 400 nm in 100 μL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.
Molecular Mass	The recombinant human CA12 consisting of 278 amino acids and has a calculated molecular mass of 31.6 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 40-45 kDa protein in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	> 97 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to

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aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name CA12 carbonic anhydrase XII [Homo sapiens]

Official Symbol CA12

Synonyms

CA12; carbonic anhydrase XII; carbonic anhydrase 12; HsT18816; CA-XII; carbonic dehydratase; carbonate dehydratase XII; tumor antigen HOM-RCC-3.1.3; CAXII; FLJ20151;

Gene ID 771

mRNA Refseq NM_001218

Protein Refseq NP_001209

MIM 603263

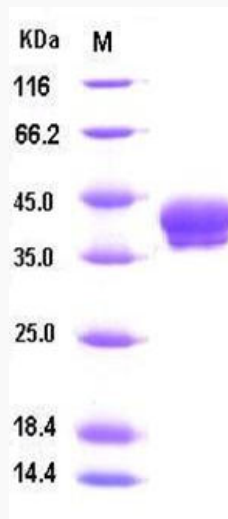
UniProt ID O43570

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SDS-PAGE



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