

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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