

## Active Recombinant Human CA12 protein, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human CA12 protein(NP_001209.1) (Met 1-Gln 291) was expressed in HEK293 with a C-terminal polyhistidine tag.                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-291 aa                                                                                                                                                                                                                                              |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | 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.                                                 |
| <b>Molecular Mass</b>   | 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. |
| <b>Endotoxin</b>        | < 1.0 EU per μg of the protein as determined by the LAL method.                                                                                                                                                                                       |
| <b>Purity</b>           | > 97 % as determined by SDS-PAGE                                                                                                                                                                                                                      |
| <b>Storage</b>          | 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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