



[Go to Product page](#)

Datasheet for ABIN1691921  
**CA10 Protein (AA 21-300) (His tag)**

### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 50 µg                                       |
| Target:                       | CA10  |
| Protein Characteristics:      | AA 21-300                                   |
| Origin:                       | Human                                       |
| Source:                       | Escherichia coli (E. coli)                  |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This CA10 protein is labelled with His tag. |

### Product Details

|                  |  |
|------------------|--|
| Purpose:         | Recombinant Human Carbonic Anhydrase 10/CA10 (N-6His)  |
| Sequence:        | MNHKVVHHHHH HMAQQNSPKI HEGWWAYKEV VQGSFVPVPS FWGLVNSAWN LCSVGKRQSP<br>VNIETSHMIF DPFLTPLRIN TGGRKVSGTM YNTGRHVSLR LDKEHLVNIS GGPMTYSHRL<br>EEIRLHFGSE DSQGSEHLLN GQAFSGEVQL IHYNHELYTN VTEAAKSPNG LVVVSIFIKV<br>SDSSNPFLNR MLNRDTITRI TYKNDAYLLQ GLNIEELYPE TSSFITYDGS MTIPPCYETA<br>SWIIMNKPVY ITRMQMHSR LLSQNPQSQI FLSMSDNFRP VQPLNRCIR TNLELQSR |
| Characteristics: | Recombinant Human Carbonic Anhydrase 10/CA10 (N-6His)  |
| Purity:          | > 95 % as determined by reducing SDS-PAGE.   |
| Sterility:       | 0.2 µm filtered  |
| Endotoxin Level: | Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test   |

## Target Details

---

|                   |  |
|-------------------|--|
| Target:           | CA10   |
| Alternative Name: | Carbonic Anhydrase 10 ( <a href="#">CA10 Products</a> )  |
| Background:       | <p>Recombinant Human Carbonic Anhydrase-Related Protein 10/CA10 is produced with our E. coli expression system. The target protein is expressed with sequence (Ala21-Asn300) of Human CA10 fused with a 6His tag at the N-terminus.</p> <p>Carbonic Anhydrase-Related Protein 10 (CA10) belongs to the Carbonic Anhydrase family of Zinc Metalloenzymes. It is an acatalytic member of the <math>\alpha</math>-carbonic anhydrase subgroup. CA10 expression is detected in the adult total brain and almost all parts of the central nervous system, but not in the fetal brain. CA10 catalyze the reversible hydration of carbon dioxide in various biological processes, which is fundamental to many processes such as respiration, renal tubular acidification and bone resorption. It is thought to play a role in the central nervous system, especially in brain development.</p> |
| Molecular Weight: | 34.1 kDa   |
| UniProt:          | <a href="#">Q9NS85</a>   |

## Application Details

---

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

---

|                  |  |
|------------------|--|
| Format:          | Lyophilized  |
| Reconstitution:  | <p>It is not recommended to reconstitute to a concentration less than 100 <math>\mu\text{g/mL}</math>.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>             |
| Buffer:          | Lyophilized from a 0.2 $\mu\text{m}$ filtered solution of 25 mM Tris, 150 mM NaCl, pH 7.5.   |
| Handling Advice: | Always centrifuge tubes before opening. Do not mix by vortex or pipetting.   |
| Storage:         | 4 °C/-20 °C/-80 °C   |
| Storage Comment: | <p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p> |