**Product Name: Recombinant Human Carbonic Anhydrase 8 (C-6His)**
**Catalog #: PEH0216**

## Summary

| | |
|---|---|
| **Name** | Carbonic Anhydrase VIII/CA8 |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Human Carbonic Anhydrase 8 is produced by our E.coli expression system and the target gene encoding Ala2-Gln290 is expressed with a 6His tag at the C-terminus. |
| **Accession #** | P35219 |
| **Host** | E.coli |
| **Species** | Human |
| **Predicted Molecular Mass** | 34.04 KDa |
| **Formulation** | Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 500mM NaCl, 1mM DTT, pH 8.5. |
| **Shipping** | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below. |
| **Stability&Storage** | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| **Reconstitution** | |

## SDS-PAGE image

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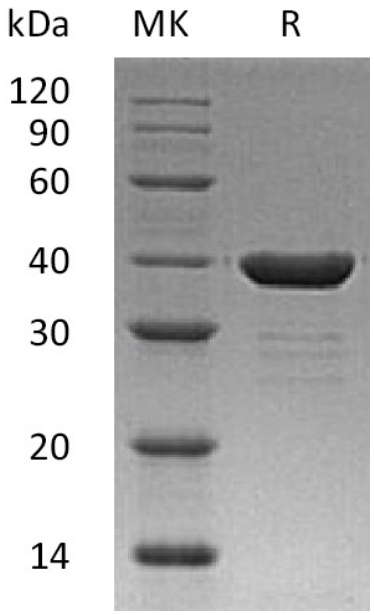


## Alternative Names

Carbonic Anhydrase-Related Protein; CARP; Carbonic Anhydrase VIII; CA-VIII; CA8; CALS

## Background

Carbonic Anhydrase 8 (CA8) belongs to the alpha-carbonic anhydrase family. Alpha-carbonic anhydrase is a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. Because CA8 has some sequence similarity with other known carbonic anhydrase genes, it was firstly called as CA-related protein. Nevertheless, CA8 does not have a carbonic anhydrase catalytic activity. Defects in CA8 are the cause of cerebellar ataxia mental retardation and dysequilibrium syndrome type 3 (CMARQ3), which is a congenital cerebellar ataxia associated with dysarthia, quadrupedal gait and mild mental retardation.

## Note

For Research Use Only , Not for Diagnostic Use.