# Recombinant Human Carbonic Anhydrase 8/CA8 Protein (His Tag)



Catalog Number: PKSH032165

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Carbonic Anhydrase-Related Protein; CARP; Carbonic Anhydrase VIII; CA-

VIII;CA8;CALS;CAMRQ3;MGC120502;MGC99509

Species Human
Expression Host E.coli

Sequence Ala2-Gln290
Accession P35219
Calculated Molecular Weight 34.0 kDa
Observed molecular weight 40 kDa
Tag C-His

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin**  $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$ 

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

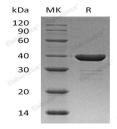
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, 1mM

DTT, pH 8.5.

**Reconstitution** Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

## **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.

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