

## 32-7097: Recombinant Human Carbonic Anhydrase 8/CA8 (C-6His)

**Gene :** CA8  
**Gene ID :** 767  
**Uniprot ID :** P35219

### Description

Source: E.coli.  
MW :34.04kD.

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. 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 dysarthria, quadripedal gait and mild mental retardation.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 500mM NaCl, 1mM DTT, pH 8.5 .  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** ADLSFIEDTVAFPEKEEDEEEEEEGVEWGYEEGVEWGLVFPDANGEYQSPINLNSREARYDPSLLDVRLSPNYV  
VCRDCEVTNDGHTIQVILKSKSVLSGGPLPQGHEFELYEVRFHWGRENQRGSEHTVNFKAFPMELHLIHWNST  
LFGSIDEAVGKPHGIAIILFVQIGKEHVGLKAVTEILQDIQYKKGSKTIPCFNPNTLLPDPLLRDYWVYEGSLTIPP  
CSEGVTWILFRYPLTISQLQIEEFRLRTHVKGAELVEGCDGILGDNFRPTQPLSDRVIRAFAFQLEHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.  
**Biological Activity :** Specific Activity is greater than 56.08pmol/min/ug