

# Product datasheet for AR51997PU-N

### Carbonic anhydrase 8 (1-290, His-tag) Human Protein

### **Product data:**

#### **Product Type: Recombinant Proteins Description:** Carbonic anhydrase 8 (1-290, His-tag) human protein, 0.1 mg Species: Human E. coli **Expression Host:** MGSSHHHHHH SSGLVPRGSH MGSHMADLSF IEDTVAFPEK EEDEEEEEG VEWGYEEGVE Expression cDNA Clone or AA Sequence: WGLVFPDANG EYQSPINLNS REARYDPSLL DVRLSPNYVV CRDCEVTNDG HTIQVILKSK SVLSGGPLPQ GHEFELYEVR FHWGRENQRG SEHTVNFKAF PMELHLIHWN STLFGSIDEA VGKPHGIAII ALFVQIGKEH VGLKAVTEIL QDIQYKGKSK TIPCFNPNTL LPDPLLRDYW VYEGSLTIPP CSEGVTWILF RYPLTISQLQ IEEFRRLRTH VKGAELVEGC DGILGDNFRP TQPLSDRVIR AAFQ Tag: His-tag Predicted MW: 35.5 kDa **Concentration:** lot specific **Purity:** >90% by SDS - PAGE **Buffer:** Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT Specific: Specific activity is > 450 pmol/min/ug, and is defined as the amount of enzyme that **Bioactivity:** hydrolyze 1.0 pmole of 4-nitrophenyl acetate to 4-nitrophenol per minute at pH 7.5 at 37C. **Preparation:** Liquid purified protein Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. **RefSeq:** NP 001308766 Locus ID: 767 **UniProt ID:** P35219 Cytogenetics: 8q12.1 Synonyms: CA-RP; CA-VIII; CALS; CAMRQ3; CARP



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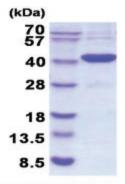
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	The protein encoded by this gene was initially named CA-related protein because of sequence
Summary:	similarity to other known carbonic anhydrase genes. However, the gene product lacks carbonic anhydrase activity (i.e., the reversible hydration of carbon dioxide). The gene product continues to carry a carbonic anhydrase designation based on clear sequence identity to other members of the carbonic anhydrase gene family. The absence of CA8 gene transcription in the cerebellum of the lurcher mutant in mice with a neurologic defect suggests an important role for this acatalytic form. Mutations in this gene are associated with cerebellar ataxia, mental retardation, and dysequilibrium syndrome 3 (CMARQ3). Polymorphisms in this gene are associated with osteoporosis, and overexpression of this gene in osteosarcoma cells suggests an oncogenic role. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Protein Families:	Druggable Genome
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Protein Pathways: Nitrogen metabolism

## Product images:



15% SDS-PAGE (3ug)

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