Recombinant Human CA8 Protein

Cat. No. CA8-813H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA8(Ala2-Gln290) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-290 a.a.
Description	The protein encoded by this gene was initially named CA-related protein because of sequence 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.
Form	20mM Tris-HCl, 500mM NaCl, 1mM DTT, pH 8.5. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Molecular Mass	34 kDa

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Endotoxin	< 0.1 EU per μg protein as determined by LAL test
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	CA8 carbonic anhydrase VIII [Homo sapiens]
Official Symbol	CA8
Synonyms	CA8; carbonic anhydrase VIII; CALS; carbonic anhydrase-related protein; CARP; CA-related protein; carbonate dehydratase; carbonic anhydrase-like sequence; CAMRQ3; CA-VIII; MGC99509; MGC120502;
Gene ID	767
mRNA Refseq	NM_004056
Protein Refseq	NP_004047
MIM	114815
UniProt ID	P35219

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