

Recombinant Human CA8 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CA8-1683H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CA8 MS Standard C13 and N15-labeled recombinant protein (NP_004047) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	33 kDa
AA Sequence	MADLSFIEDTVAFPEKEEDEEEEEEGVEWGYEEGVEWGLVFPDANGEYQSPINLNS REARYDPSLLDVRLSPNYVVCRDCEVTNDGHTIQVILKSKSVLSSGGPLPQGHEFELY

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EVRFHWGRENQRGSEHTVNFKAFPMELHLIHWNSTLFGSIDEAVGKPHGIAIALFV
 QIGKEHVGLKAVTEILQDIQYKKGSKTIPCFNPNTLLPDPLLRDYWVYEGSLTIPPCSE
 GVTWILFRYPLTISQLQIEEFRRLRTHVKGAELVEGCDGILGDNFRPTQPLSDRVIRA
 AFQTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CA8 carbonic anhydrase VIII [Homo sapiens (human)]

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

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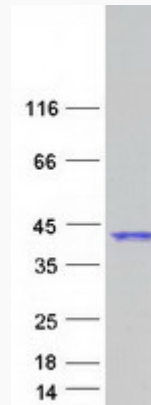
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MIM 114815

UniProt ID P35219

SDS-PAGE



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