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**Product Data Sheet**


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Product Name: CA8 Human  
 Cat. No.: GP21453  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Carbonic anhydrase VIII; CALS; CARP; CA-VIII; CAMRQ3; CA-related protein; carbonate dehydratase; carbonic anhydrase-like sequence; carbonic anhydrase-related protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMADLSF IEDTVAFPEK EEDEEEEEEG VEWGYEEGVE 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		
Formulation	The CA8 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 20% glycerol.		

**Introduction**

CA8 was first called CA-related protein since there is a sequence similarity to other identified carbonic anhydrase genes. Still, this protein has no carbonic anhydrase activity - the reversible hydration of carbon dioxide. CA8 still holds a carbonic anhydrase designation due to obvious sequence similarity to other members of the carbonic anhydrase gene family. Mutations in CA8 result in cerebellar ataxia mental retardation and dysequilibrium syndrome type 3 (CMARQ3).

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

CA8 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 314 amino acids (1-290) and having a molecular mass of 35.5kDa. CA8 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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