
Product Data Sheet

Product Name: CA8 Human, Active

Cat. No.: GP26135

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Carbonic anhydrase-related protein, CA-VIII, CALS, CAMRQ3, CARP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMMADLSF IEDTVAFPEK EEDEEEEEEG VEWGYEEGVEWGLVFPDANG EYQSPINLNS REARYDPSLL DVRLSPNYVV CRDCEVTNDG HTIQVILKSKSVLSGGPLPQ GHEFELYEVR FHWGRENQRG SEHTVNFKAF PMELHLIHWN STLFGSIDEAVGKPHGIAII ALFVQIGKEH VGLKAVTEIL QDIQYKGKSK TIPCFNPNTL LPDPLLRDYWVYEGSLTIPP CSEGVTWILF RYPLTISQLQ IEEFRRLRTH VKGAELVEGC DGILGDNFRP TQPLSDRVIR AAFQ		
Formulation	CA8 Human protein (1mg/ml) is formulated in 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.		

Introduction

Carbonic Anhydrase VIII or CA8 was previously called CA-related protein due to its sequence resemblance to additional recognized carbonic anhydrase genes. Nonetheless CA8 doesn't have carbonic anhydrase function. This protein keeps bearing a carbonic anhydrase classification because of coherent sequence similarity to additional proteins in carbonic anhydrase family. Mutations in this protein may lead to cerebellar dysequilibrium syndrome type 3 or ataxia mental retardation.

Biological Activity

Specific activity is > 450 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of 4-nitrophenyl acetate to 4-nitrophenol per minute at pH 7.5 at 37C.

Stability

Store at 46vC if entire vial will be used within 2-4 weeks.

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 Human is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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