Datasheet for ABIN1096206

CA8 Protein (AA 2-290) (His tag)

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Overview

Quantity:	50 µg
Target:	CA8
Protein Characteristics:	AA 2-290
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA8 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 8/CA8 (C-6His)
Sequence:	ADLSFIEDTV AFPEKEEDEE EEEEGVEWGY EEGVEWGLVF PDANGEYQSP INLNSREARY DPSLLDVRLS PNYVVCRDCE VTNDGHTIQV ILKSKSVLSG GPLPQGHEFE LYEVRFHWGR ENQRGSEHTV NFKAFPMELH LIHWNSTLFG SIDEAVGKPH GIAIIALFVQ IGKEHVGLKA VTEILQDIQY KGKSKTIPCF NPNTLLPDPL LRDYWVYEGS LTIPPCSEGV TWILFRYPLT ISQLQIEEFR RLRTHVKGAE LVEGCDGILG DNFRPTQPLS DRVIRAAFQL EHHHHHH
Characteristics:	Recombinant Human Carbonic Anhydrase 8/CA8 is produced with our E. coli expression system. The target protein is expressed with sequence (Ala2-Gln290) of Human CA8.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CA8
Alternative Name:	Carbonic Anhydrase 8 (CA8 Products)
Background:	Carbonic Anhydrase 8 (CA8) belongs to the alpha-carbonic anhydrase family. Alpha-carbonic anhydrase is a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. Because CA8 has some sequence similarity with other known carbonic anhydrase genes, it was firstly called as CA-related protein. Nevertheless, CA8 does not have a carbonic anhydrase catalytic activity. Defects in CA8 are the cause of cerebellar ataxia mental retardation and dysequilibrium syndrome type 3 (CMARQ3), which is a congenital cerebellar ataxia associated with dysarthia, quadrupedal gait and mild mental retardation. Alternative Names: Carbonic Anhydrase-Related Protein, CARP, Carbonic Anhydrase VIII, CA-VIII, CA8, CALS
Molecular Weight:	34.04 kDa
UniProt:	P35219

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 500 mM NaCl, 1 mM DTT, pH 8.5 .
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months