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32-6686: CA8 Human, Active

Application : Functional Assay
Alternative Name : Carbonic anhydrase-related protein, CA-VIII, CALS, CAMRQ3, CARP.

Description

Source: Escherichia Coli.
Sterile Filtered clear solution.
Carbonic Anhydrase VIII or CA8 was previously called CA-related protein due to its sequence resemblance to additional recognized carbonic anhydrase genes. Nonetheless CA8 doesnÂ'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.
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 Humanis fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	CA8 Human protein (1mg/ml) is formulated in 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSHMADLSF 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

Application Note

Specific activity is > 450 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of4-nitrophenyl acetate to 4-nitrophenol per minute at pH 7.5 at 37C.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.