Datasheet for ABIN7596257

CA10 Protein (AA 22-328) (His tag)

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Overview

Quantity:	500 µg
Target:	CA10
Protein Characteristics:	AA 22-328
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA10 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	QQNSPK IHEGWWAYKE VVQGSFVPVP SFWGLVNSAW NLCSVGKRQS PVNIETSHMI FDPFLTPLRI NTGGRKVSGT MYNTGRHVSL RLDKEHLVNI SGGPMTYSHR LEEIRLHFGS EDSQGSEHLL NGQAFSGEVQ LIHYNHELYT NVTEAAKSPN GLVVVSIFIK VSDSSNPFLN RMLNRDTITR ITYKNDAYLL QGLNIEELYP ETSSFITYDG SMTIPPCYET ASWIIMNKPV YITRMQMHSL RLLSQNQPSQ IFLSMSDNFR PVQPLNNRCI RTNINFSLQG KDCPNNRAQK LQYRVNEWLL K
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 150 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH8.0 at 37°C.

Target Details

Target:	CA10
Alternative Name:	Carbonic Anhydrase X/CA10 (CA10 Products)
Background:	Carbonic anhydrase X, also known as CA10, belongs to the CA family of zinc metalloenzymes. It is catalyze the reversible hydration of carbon dioxide in various biological processes such as respiration, renal tubular acidification and bone resorption. Also an acatalytic member of the alpha-carbonic anhydrase subgroup, and it is thought to play a role in the central nervous system, especially in brain development. Recombinant human Carbonic Anhydrase X/CA10, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	36.3kDa (317aa)
NCBI Accession:	NP_064563

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.