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Datasheet for ABIN5853447 CA14 Protein (AA 16-290) (His tag)

Image



Overview

Quantity:	100 µg			
Target:	CA14			
Protein Characteristics:	AA 16-290			
Origin:	Human			
Source:	Escherichia coli (E. coli)			
Protein Type:	Recombinant			
Biological Activity:	Active			
Purification tag / Conjugate:	This CA14 protein is labelled with His tag.			
Application:	SDS-PAGE (SDS)			
Product Details				
Sequence:	MGSSHHHHHH SSGLVPRGSH MGSADGGQHW TYEGPHGQDH WPASYPECGN NAQSPIDIQT			
	DSVTFDPDLP ALQPHGYDQP GTEPLDLHNN GHTVQLSLPS TLYLGGLPRK YVAAQLHLHW			
	GQKGSPGGSE HQINSEATFA ELHIVHYDSD SYDSLSEAAE RPQGLAVLGI LIEVGETKNI			
	AYEHILSHLH EVRHKDQKTS VPPFNLRELL PKQLGQYFRY NGSLTTPPCY QSVLWTVFYR			
	RSQISMEQLE KLQGTLFSTE EEPSKLLVQN YRALQPLNQR MVFASFIQAG SSYTTGEM			
Purity:	> 85 % by SDS - PAGE			
Biological Activity Comment:	Specific activity is > 700 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.			

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Target Details

Target:	CA14
Alternative Name:	CA14 (CA14 Products)
Background:	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA14 is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII, however, they have different patterns of tissue-specific expression and thus may play different physiologic roles. Recombinant human CA14 protein, fused to His-tag at N- terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Molecular Weight:	33.2kDa (298aa) confirmed by MALDI-TOF
NCBI Accession:	NP_036245
UniProt:	Q9ULX7

Application Details

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

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10 % glycerol, 1 mM DTT
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

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S	DS-	P	A	G	E

Image 1.

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