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## Datasheet for ABIN1692281 CA14 Protein (AA 19-290) (His tag)

### Overview

Quantity:	50 µg
Target:	CA14
Protein Characteristics:	AA 19-290
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA14 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 14/CA14 (N-6His)
Sequence:	MNHKVVHHHHH HMQQHWTYEG PHGQDHPAS YPECGNNAQS PIDIQTDSVT FDPDLPALQP HGYDQPGTEP LDHNNNGHTV QLSLPSTLYL GGLPRKYVAA QLHLHWGQKG SPGGSEHQIN SEATFAELHI VHYDSDSYDS LSEAAERPQG LAVLGILIEV GETKNIAYEH ILSHLHEVRH KDQKTSVPPF NLRELLPKQL GQYFRYNGSL TTPPCYQSVL WTVFYRRSQI SMEQLEKLQG TLFSTEEEPS KLLVQNYRAL QPLNQRMVFA SFIQAGSSYT TGEMVDLQSR
Characteristics:	Recombinant Human Carbonic Anhydrase 14/CA14 (N-6His)
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:	CA14
Alternative Name:	Carbonic Anhydrase 14/CA14 ( <a href="#">CA14 Products</a> )
Background:	<p>Recombinant Human Carbonic Anhydrase 14/CA14 is produced by our E. coli expression system. The target protein is expressed with sequence (Gly19-Met290) of Human CA14 fused with a 6His tag at the N-terminus.</p> <p>Carbonic Anhydrase 14 (CA14) belongs to the <math>\alpha</math>-Carbonic Anhydrase family. It is highly expressed in all parts of the central nervous system and lowly expressed in adult liver, heart, small intestine, colon, kidney, urinary bladder, and skeletal muscle. CA14 along with other Carbonic Anhydrases (CAs) 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. CA14 is predicted to be a type I membrane protein and catalyzes the reversible hydration of carbon dioxide.</p>
Molecular Weight:	32.8 kDa
UniProt:	<a href="#">Q9ULX7</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 <math>\mu</math>g/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 $\mu$ m filtered solution of 20 mM Tris, 150 mM NaCl, 10 % Glycerol, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at &lt; -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months