

Bioactive

CA14 (Human) Recombinant Protein

Catalog # P7928 Size 100 ug

Applications



Specification	
Product Description	Human CA14 (Q9ULX7, 16 a.a 290 a.a.) partial length recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Sequence	ADGGQHWTYEGPHGQDHWPASYPECGNNAQSPIDIQTDSVTFDPDLPALQPHGYDQPGTEPLD LHNNGHTVQLSLPSTLYLGGLPRKYVAAQLHLHWGQKGSPGGSEHQINSEATFAELHIVHYDSDS YDSLSEAAERPQGLAVLGILIEVGETKNIAYEHILSHLHEVRHKDQKTSVPPFNLRELLPKQLGQYF RYNGSLTTPPCYQSVLWTVFYRRSQISMEQLEKLQGTLFSTEEEPSKLLVQNYRALQPLNQRMVF ASFIQAGSSYTTGEM
Host	Escherichia coli
Theoretical MW (kDa)	33.2
Form	Liquid
Preparation Method	Escherichia coli expression system
Purity	> 85% by SDS-PAGE
Activity	Specific activity is &glt 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 37°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

😚 Abnova	Product Information
Storage Buffer	In 20mM Tris-HCI pH 8.0 (10% glycerol, 0.15 M NaCl, 1 mM DTT)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CA14	
Entrez GenelD	23632
Protein Accession#	Q9ULX7
Gene Name	CA14
Gene Alias	-
Gene Description	carbonic anhydrase XIV
Omim ID	<u>604832</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	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 respir ation, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cer ebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA XIV is predicted to be a type I membrane protein and shares hig hest 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. [provid ed by RefSeq
Other Designations	OTTHUMP00000014540 carbonic dehydratase

Pathway

• Nitrogen metabolism



Disease

• Tobacco Use Disorder