

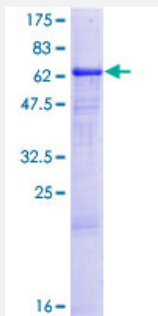
Full-Length

CA14 (Human) Recombinant Protein (P01)

Catalog # H00023632-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CA14 full-length ORF (NP_036245.1, 1 a.a. - 337 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLFSALLLEVIWILAADGGQHWTYEGPHGQDHWPAASYPECGNNAQSPIDIQTDSVTFDPDLPALQ
PHGYDQPGTEPLDLHNNGHTVQLSLPSTLYLGGLPRKYVAAQLHLHWGQKGSPGGSEHQINSEA
TFAELHIVHYDSDSYDSLSEAAERPQGLAVLGILIEVGETKNIAYEHLHLHEVRHKDQKTSVPPFN
LRELLPKQLGQYFRYNGSLTPPCYQSVLWTVFYRRSQISMEQLEKLQGTLFSTEEEPSKLLVQNY
RALQPLNQRMVFASFIQAGSSYTTGEMLSLGVGILVGCLCLLLAVYFIARKIRKKRLENRKSVVFTS
AQATTEA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

64.1

Interspecies Antigen Sequence

Mouse (83); Rat (83)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CA14

Entrez GeneID[23632](#)**GeneBank Accession#**[NM_012113.1](#)**Protein Accession#**[NP_036245.1](#)**Gene Name**

CA14

Gene Alias

-

Gene Description

carbonic anhydrase XIV

Omim ID[604832](#)**Gene Ontology**[Hyperlink](#)**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 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. CA XIV 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. [provided by RefSeq]

Other Designations

OTTHUMP00000014540|carbonic dehydratase

Pathway

- [Nitrogen metabolism](#)

Disease

- [Tobacco Use Disorder](#)