For Research Use Only

Recombinant Human Carbonic Anhydrase 6/CA6 protein (rFc Tag) (HPLC verified)

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Catalog Number: Eg2963

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μg protein, LAL method

Source:
HEK293-derived Human Carbonic Anhydrase 6 protein Gln18-Asn308 (Accession# P23280-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
765

Accession:
P23280-1

Predicted Molecular Mass:
59.6 kDa

SDS-PAGE:
58-68 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CA6 (Carbonic anhydrase VI) is a member of CA family proteins that play a central role in pH regulation and electrolyte balance. CA6 is also known as gustin, is a zinc-containing secreted protein which catalyzes the hydration of carbon hydroxide in saliva. CA6 is specifically expressed in the salivary gland of a number of mammalian species. The amino acid sequences are highly conserved across the species. And it was reported that decreasing of CA6 protein was associated with loss of taste and pathological morphology of taste buds.

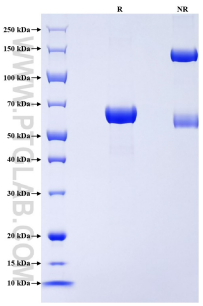
References

1. Choi JH, Lee J, etal. (2017) Oncotarget. 28;8(13):21253-21265.
2. Thatcher BJ, Doherty AE, etal. (1998) Biochem Biophys Res Commun. 29;250(3):635-41.
3. Li Y, Pan J. (2024) Clin Oral Investig. 30;28(9):508.
4. Nicolazzi C. (2020) Mol Cancer Ther. 19(8):1660-1669.

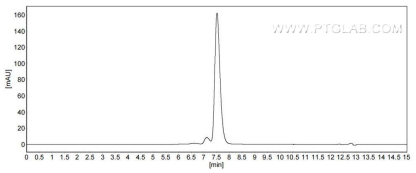
Synonyms

CA6, CA VI, Carbonate dehydratase VI, Carbonic anhydrase 6, CA-VI

Selected Validation Data



Purity of Recombinant Human Carbonic Anhydrase 6 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human Carbonic Anhydrase 6 was greater than 90% as determined by SEC-HPLC.