

For Research Use Only

Recombinant Human Carbonic Anhydrase IX/CA9 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg2449



Basic Information

Species:
Human

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

Tag:
rFc Tag

Technical Specifications

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

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

Source:
HEK293-derived Human Carbonic Anhydrase IX protein Gln38-Asp414 (Accession# Q16790) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
768

Accession:
Q16790

Predicted Molecular Mass:
67.2 kDa

SDS-PAGE:
70-100 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°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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

CA9 (Carbonic anhydrase 9) may be involved in the control of cell proliferation and transformation and appears to be a novel specific biomarker for a cervical neoplasia. It is a tumor-associated antigen that has been shown to have diagnostic utility in identifying cervical dysplasia and carcinoma. The protein is present both on the plasma membrane and in the nucleus of cells.

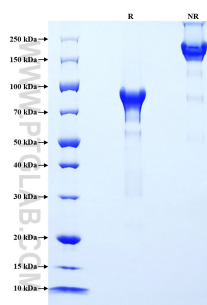
References

1. Mika Hilvo, et al. (2008) J Biol Chem. 283(41):27799-27809.
2. Qi Su, et al. (2019) Cell Death Dis. 10(12):939.

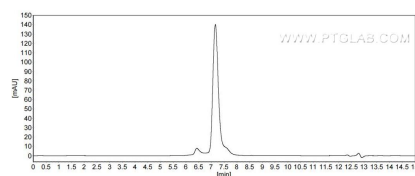
Synonyms

CA9, CAIX, carbonic anhydrase IX, CA 9, CA IX

Selected Validation Data



Purity of Recombinant Human Carbonic Anhydrase IX 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 IX was greater than 90% as determined by SEC-HPLC.