

For Research Use Only

Recombinant Human TFF1 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg3073

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 TFF1 protein Glu25-Phe84 (Accession# P04155) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
7031

Accession:
P04155

Predicted Molecular Mass:
32.7 kDa

SDS-PAGE:
35-40 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

TFF1 (Treffol factor 1, formerly known as pS2) is a small-secreted protein that belongs to the family of trefoil peptides, and characterized by the presence of one to six cysteine-rich P domains. TFF1 expression is frequently lost in gastric carcinoma, probably through mechanism of DNA methylation, and it is therefore considered as a tumor suppressor gene. The function of TFF1 was first controversially considered as an oncogene in breast cancer.

References

1. Li J, Xia N, et al. (2022) Adv Sci (Weinh). 9(9):e2104338.
2. Okamoto M, Kuratani A, et al. (2024) Front Immunol. 15:1440918.
3. Busch MA, Haase A, et al. (2022) Cancers (Basel). 14(3):677.
4. Shah A, Jahan R, et al. (2024) Cancer Lett. 598:217097.

Synonyms

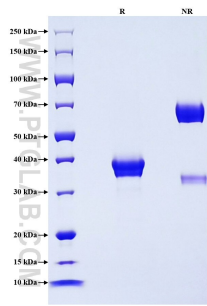
Breast cancer estrogen-inducible protein, HP1.A, pNR 2, PNR-2, Polypeptide P1.A

For technical support and original validation data for this product please contact

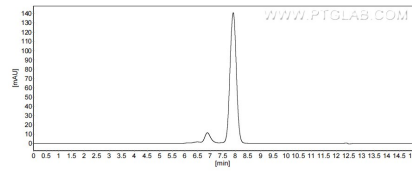
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Selected Validation Data



Purity of Recombinant Human TFF1 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 TFF1 was greater than 90% as determined by SEC-HPLC.