

For Research Use Only

Recombinant Human TFF2 protein (rFc Tag)



Catalog Number: Eg2898

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human TFF2 protein Glu24-Tyr129 (Accession# Q03403) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

7032

Accession:

Q03403

Predicted Molecular Mass:

38.0 kDa

SDS-PAGE:

37-45 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m 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

The trefoil factor family (TFF), comprises of three polypeptides, TFF1, TFF2 and TFF3 (7-12 kDa), secreted to mucosal surfaces by mucus producing cells, prominently in the gastrointestinal tract. TFF2, also known as spasmolytic polypeptide, is a low-molecular weight protein, expressed in mucous neck cells of the fundus and glands at the base of the antrum in normal human stomach. TFF2 expression is observed ectopically during stone diseases, chronic inflammatory conditions and in several metaplastic and neoplastic epithelia. TFF2 could inhibit gastrointestinal motility and gastric acid secretion. Recent studies suggest that TFF2 could also play an important role in the immune system.

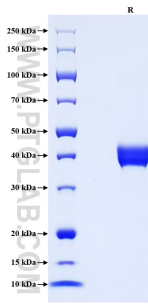
References

1. Takako K, et al. (2021). Int J Gynecol Pathol. Jan;40(1):65-72.
2. Jiang Z, et al. (2023). Cell stem cell. Aug 3;30(8):1091-1109.e7.
3. Hoffmann W. (2015). Int J Oncol. Sep;47(3):806-16.

Synonyms

SML1, TFF2, SP, Spasmolysin, Spasmolytic polypeptide

Selected Validation Data



Purity of Recombinant Human TFF2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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