

For Research Use Only

Recombinant Human STC1 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg2922

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 STC1 protein Thr18-Ala247 (Accession# P52823-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
6781

Accession:
P52823-1

Predicted Molecular Mass:
51.9 kDa

SDS-PAGE:
55-65 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

Stanniocalcin-1 (STC1) is a hormone-like glycoprotein that has been shown to regulate calcium and phosphorus homeostasis. Tumorous STC1 could interact with Calreticulin (CRT) to trap CRT in mitochondria area, and then reduces membrane CRT.

References

1. Yeung BH, et al. Mol. Cell Endocrinol. 2012;349:272-280.
2. Lin H, et al. Cancer Cell. 2021;39:480-493.e486.

Synonyms

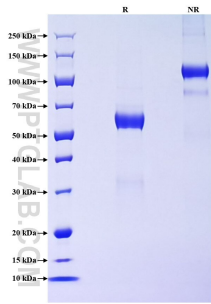
Stanniocalcin-1, STC, STC-1

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

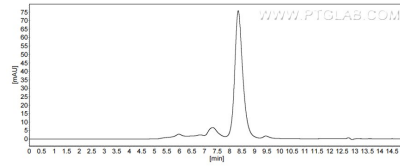
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Selected Validation Data



Purity of Recombinant Human STC1 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 STC1 was greater than 90% as determined by SEC-HPLC.