

Recombinant Human GP2 protein (rFc Tag)

Catalog Number: Eg2446

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<1.0 EU/ µg protein, LAL method

Source:

HEK293-derived Human GP2 protein Val29-Asn512 (Accession# P55259-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

2813

Accession:

P55259-1

Predicted Molecular Mass:

80.1 kDa

SDS-PAGE:**Formulation:**

Lyophilized from sterile 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

Pancreatic secretory granule membrane major glycoprotein (GP2) is the most abundant membrane component of zymogen granules secreted by pancreatic acinar cells. GP2 associates with the plasma membrane via glycosylphosphatidylinositol (GPI) linkage. It is released from the membrane of mature zymogen granules by an enzymatic mechanism. GP2 plays a role in defense against adhesive and invasive commensal bacteria during intestinal inflammation. GP2 is preferentially expressed in acinar cell carcinomas of the pancreas but the glycoprotein can rarely also be expressed in a variety of other tumor entities. The apparent molecular weight of GP2 is 70-100 kDa, which is larger than the calculated molecular weight, due to glycosylation.

References

1. Scheele, G A et al. Pancreas vol. 9,2 (1994): 139-49.
2. Fukuoka, S et al. Proceedings of the National Academy of Sciences of the United States of America vol. 88,7 (1991): 2953-2957.
3. Kurashima, Yosuke et al. Nature communications vol. 12,1 1067. 16 Feb. 2021.
4. Uhlig, Ria et al. Pathology, research and practice vol. 238 (2022): 154123.

Synonyms

Pancreatic zymogen granule membrane protein GP-2, ZAP75

Selected Validation Data

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

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