For Research Use Only

Recombinant Human GP2 protein (mFc Tag)

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Catalog Number: Eg2447

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

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

GeneID:
2813

Accession:
P55259-1

Predicted Molecular Mass:
80.4 kDa

SDS-PAGE:
80-120 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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.

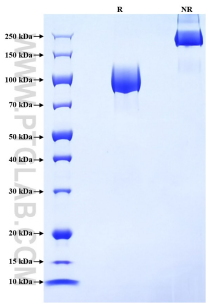
References

1. G A Scheele, et al. (1994) Pancreas. 9(2):139-49.
2. S Fukuoka, et al. (1991) Proc Natl Acad Sci U S A. 88(7):2898-902.
3. Yosuke Kurashima, et al. (2021) Nat Commun. 12(1):1067.
4. Ria Uhlig, et al. (2022) Pathol Res Pract. 238:154123.

Synonyms

Pancreatic zymogen granule membrane protein GP-2, ZAP75

Selected Validation Data



Purity of Recombinant Human GP2 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.