For Research Use Only

Recombinant Human ST6GAL1 protein (rFc Tag)

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Catalog Number: Eg5012

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human ST6GAL1 protein Lys27-Cys406 (Accession# P15907) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
6480

Accession:
P15907

Predicted Molecular Mass:
70.4 kDa

SDS-PAGE:
70-90 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

ST6GAL1 (β-galactoside α-2-6 sialyl transferase1; also known as ST6N or CD75) is a sialyltransferase mediating the glycosylation of proteins and lipids to form functionally important glycoproteins and glycolipids in the Golgi compartment. It is principally expressed in liver, placenta, and skeletal muscle. ST6GAL1 undergoes proteolytic process to generate soluble form from membrane form. Western blot analysis of human liver using this antibody detects both isoforms between 43-50 kDa. Higher molecular weight of bands around 50-70 kDa can also be observed with glycosylation modification.

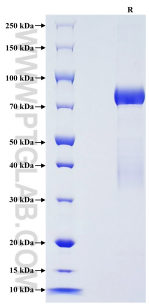
References

1. Krick, Stefanie et al. Frontiers in immunology vol. 12 (2021): 693149.
2. Gc, Sajina et al. Frontiers in molecular biosciences vol. 9 (2022): 962908.
3. Swindall, Amanda F et al. Cancer research vol. 73,7 (2013): 2368-78.

Synonyms

Alpha 2,6-ST 1, B-cell antigen CD75, Beta-galactoside alpha-2,6-sialyltransferase 1, CD75, CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,6-sialyltransferase 1

Selected Validation Data



Purity of Recombinant Human ST6GAL1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.