

For Research Use Only

# Recombinant Human B3GAT1/CD57 protein (His Tag)



Catalog Number: Eg0793

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
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## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human B3GAT1 protein Thr28-Ile334 (Accession# Q9P2W7-1) with a His tag at the N-terminus.

**GeneID:**  
27087

**Accession:**  
Q9P2W7-1

**Predicted Molecular Mass:**  
36.1 kDa

**SDS-PAGE:**  
38-45 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ 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

B3GAT1, or beta-1,3-glucuronyltransferase 1, is a gene located in humans that encodes a member of the glucuronyltransferase gene family. This enzyme plays a critical role in the biosynthesis of the carbohydrate epitope HNK-1 (human natural killer-1), also known as CD57 and LEU7. Research has implicated B3GAT1 in various disorders, particularly those related to the immune system and infections. For instance, the enzyme's role in synthesizing glycosaminoglycans contributes to the structural integrity of cellular surfaces, which can influence susceptibility to viral infections.

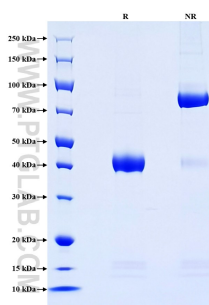
## References

- 1.Yasuhiko Kizuka, et al. (2021) Glycoscience Protocols.
- 2.Trimarco JD, et al. (2022) Nat Commun. 3 (1):6456.

## Synonyms

B3GAT1, Beta-1,3-glucuronyltransferase 1, EC:2.4.1.135, Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1, GLCATP

## Selected Validation Data



Purity of Recombinant Human B3GAT1 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.

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

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