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# **Recombinant Human B3GAT3 Protein (His Tag)**

Catalog No. PKSH033257

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

**Synonyms** B3GAT3; Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase

3;Beta-1;3-glucuronyltransferase 3;Glucuronosyltransferase I;GlcAT-I;GlcUAT-

I;Gal beta-1;3-Gal-R glucuronyltransferase;;

**Species** Human E.coli **Expression Host** 

Glu72-Val335 Sequence

O94766 Accession Calculated Molecular Weight 30.4 kDa Observed molecular weight 31-34 kDa C-His Tag

**Bioactivity** Not validated for activity

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. **Storage** 

This product is provided as liquid. It is shipped at frozen temperature with blue Shipping

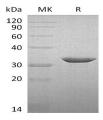
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

**Formulation** Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaC, 2mM

EDTA, 20% Glycerol, pH 8.0.

Reconstitution Not Applicable

#### Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3 (B3GAT3) is an enzyme that in humans is encoded by the B3GAT3 gene, belongs to the glycosyltransferase 43 family. B3GAT3 is involved in a number of biological processes such as catalyzing the formation of the glycosaminoglycan-protein linkage by way of a glucuronyl transfer

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reaction in the final step of the biosynthesis of the linkage region of proteoglycans, forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate, gGlycosaminoglycans biosynthesis, transfering a glucuronic acid moiety from the uridine diphosphate-glucuronic acid (UDP-GlcUA) to the common linkage region trisaccharide Galbeta-1,3-Gal-beta-1,4-Xyl covalently bound to a Ser residue at the glycosaminylglycan attachment site of proteoglycans.It also plays a role in the biosynthesis of 12/HNK-1 carbohydrate epitope on glycoproteins, hows strict specificity for Galbeta-1,3-Gal-beta-1,4-Xyl, exhibiting negligible incorporation into other galactoside substrates including Galbeta1-3Gal beta1-O-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc and stimulates 2-phosphoxylose phosphatase activity of PXYLP1 in presence of uridine diphosphate-glucuronic acid (UDP-GlcUA) during completion of linkage region formation.

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