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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
Expression Host E.coli

Sequence Glu72-Val335

AccessionO94766Calculated Molecular Weight30.4 kDaObserved molecular weight31-34 kDaTagC-His

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.

Storage Store at $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.

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

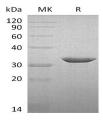
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

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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