

Recombinant Human B3GAT3 Protein (His Tag)

Catalog Number:PKSH033257



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

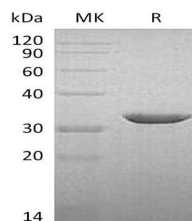
Description

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

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°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 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, transferring a glucuronic acid moiety from the uridine diphosphate-glucuronic acid (UDP-GlcUA) to the common linkage region trisaccharide Gal-beta-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 I2/HNK-1 carbohydrate epitope on glycoproteins, shows strict specificity for Gal-beta-1,3-Gal-beta-1,4-Xyl, exhibiting negligible incorporation into other galactoside substrates including Galbeta1-3Gal

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623

Web: www.elabscience.com

Tel: 1-832-243-6086

Email: techsupport@elabscience.com

Fax: 1-832-243-6017

Recombinant Human B3GAT3 Protein (His Tag)

Catalog Number:PKSH033257



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.

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623

Tel: 1-832-243-6086

Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com