

Datasheet for ABIN7552504

B3GAT3 Protein (AA 1-335) (His tag)



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Overview

Quantity:	1 mg
Target:	B3GAT3
Protein Characteristics:	AA 1-335
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B3GAT3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant B3GAT3 Protein expressed in mammalian cells.
Sequence:	<p>MKLKLNKVFLL AYFLVSIAGL LYALVQLGQP CDCLPPLRAA AEQLRQKDLR ISQLQAEELRR</p> <p>PPPAPAPPE PEALPTIYVV TPTYARLVQK AELVRLSQTLL SLVPRHLHWLL VEDAEGPTPL</p> <p>VSGLLAASGL LFTHLVLTLP KAQLRREGEP GWVHPRGVEQ RNKALDWLRG RGGAVGGEKD</p> <p>PPPPGTQGVV YFADDDNTYS RELFEEMRWT RGVSVWPVGL VGGLRFEGPQ VQDGRVVGFFH</p> <p>TAWEPSRPFP VDMAGFAVAL PLLLDKPNQAQ FDSTAPRGHL ESSLLSHLVD PKDLEPRAAN</p> <p>CTRLVWHTR TEKPKMKQEE QLQRQGRGSD PAIEV Sequence without tag. The proposed</p> <p>Purification-Tag is based on experiences with the expression system, a different complexity</p> <p>of the protein could make another tag necessary. In case you have a special request, please</p> <p>contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	B3GAT3
Alternative Name:	B3GAT3 (B3GAT3 Products)
Background:	<p>Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3 (EC 2.4.1.135) (Beta-1,3-glucuronyltransferase 3) (Glucuronosyltransferase I) (GlcAT-I) (UDP-GlcUA:Gal beta-1,3-Gal-R glucuronyltransferase) (GlcUAT-I),FUNCTION: Glycosaminoglycans biosynthesis (PubMed:25893793). Involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. Transfers 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. Can also play 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 beta1-O-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc. Stimulates 2-phosphoxylose phosphatase activity of PXYLP1 in presence of uridine diphosphate-glucuronic acid (UDP-GlcUA) during completion of linkage region formation (PubMed:24425863). {ECO:0000269 PubMed:24425863, ECO:0000269 PubMed:25893793}.</p>

Target Details

Molecular Weight:	37.1 kDa
UniProt:	O94766
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months