
Product Data Sheet

Product Name: B3GAT3 Human

Cat. No.: GP21430

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Beta-1;3-glucuronyltransferase 3; GLCAT1; Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3; Glucuronosyltransferase I; GlcAT-I; GlcUAT-I; B3GAT3; UDP-GlcUA:Gal beta-1;3-Gal-R glucuronyltransferase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSQPCDCLP PLRAAAEQLR QKDLRISQLQ AELRRPPPAP AQPPEPEALP TIYVVTPTYA RLVQKAELVR LSQTLSLVPR LHWLLVEDAE GPTPLVSGLL AASGLLFTHL VVLTPKAQRL REGEPGWVHP RGVEQRNKAL DWLRGRGGAV GGEKDP PPPG TQGVVYFADD DNTYSRELFE EMRWTRGVSV WPVGLVGGLR FEGPQVQDGR VVGFTAWEP SRPFPVDMAG FAVALPLLLD KPNAQFDSTA PRGHLESSLL SHLVDPKDLE PRAANCTRVL VWHTRTEKPK MKQEEQLQRQ GRGSDPAIEV.		
Formulation	B3GAT3 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Beta-1,3-glucuronyltransferase 3 (B3GAT3) is involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. B3GAT3 has a part in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins. B3GAT3 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

B3GAT3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 330 amino acids (29-335 a.a) and having a molecular mass of 36.4kDa. B3GAT3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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