

Recombinant human B3GAT3 protein

Catalog Number: ATGP2114

PRODUCT INFORMATION

Expression system

E.coli

Domain

29-335aa

UniProt No.

O94766

NCBI Accession No.

NP_036332

Alternative Names

Beta-13-glucuronyltransferase 3, Beta-1,3-glucuronyltransferase 3, GLCAT1

PRODUCT SPECIFICATION

Molecular Weight

36.4 kDa (330aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Beta-1, 3-glucuronyltransferase 3, also known as B3GAT3, is involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. This protein can also play a role in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins. It 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. Recombinant human B3GAT3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSQPCDCLP PLRAAAEQLR QKDLRISQLQ AELRRPPPAP AQPPEPEALP TIYVVTPTYA
RLVQKAELVR LSQTLVLVPR LHWLLVEDAE GPTPLVSGLL AASGLLFTHL VVLTPKAQRL REGEPGWVHP RGVEQRNKAL
DWLRGRGGAV GGEKDP PPPG TQGVVYFADD DNTYSRELFE EMRWTRGVSV WPVGLVGGLR FEGPQVQDGR
VVGFTAWEP SRFPVDMAG FAVALPLLLD KPNAQFDSTA PRGHLESSLL SHLVDPKDLE PRAANCTRLV VWHTRTEKPK
MKQEEQLQRQ GRGSDPAIEV

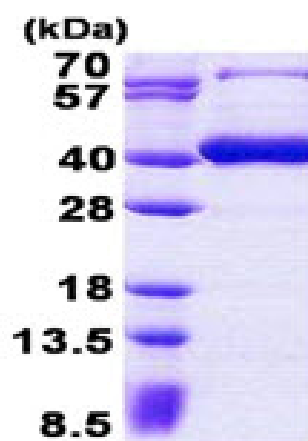
General References

Pedersen L.C., et al. (2000) J. Biol. Chem. 275:34580-34585

Tone Y., et al. (2008) J. Biol. Chem. 283:16801-16807

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)