Recombinant mouse GalNAc Transferase 1/GALNT1 protein

Catalog Number: ATGP3718

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
41-559aa

UniProt No.
O08912

NCBI Accession No.
NP_038842

Alternative Names
UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 1, Protein-UDP acetylgalactosaminyltransferase 1, pp-GaNTase 1, Polypeptide N-acetylgalactosaminyltransferase 1, Polypeptide GalNAc transferase 1, Galnt1, GalNAc-T1

PRODUCT SPECIFICATION

Molecular Weight
60.5 kDa (528aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

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
Galnt1, also known as polypeptide N-acetylgalactosaminyltransferase 1, is a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. It catalyzes the

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initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Also, this protein is involved in the glycosylation of proteins essential for bone formation such as osteopontin and bone sialoprotein. Recombinant mouse Galnt1 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

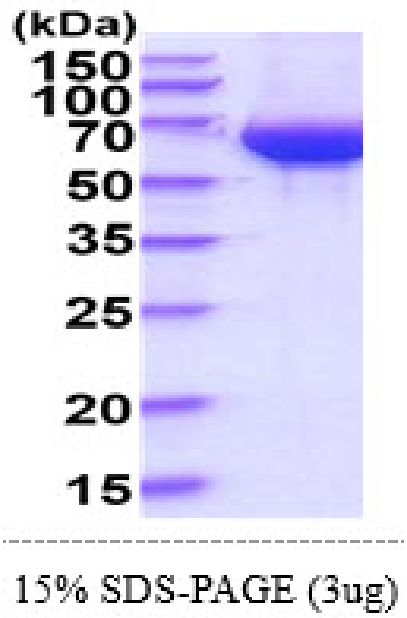
ADPGLPAGDV LELVQKPHEG PGEMGKPVVI PKEDQEKMKE MFKINQFNLM ASEMIALNRS LPDVRLEGCK TKVYPDNLPT TSVVIVFHNE AWSTLLRTVH SVINRSPRHM IEEIVLVDDA SERDFLKRPL ESYVKKLKVP VHVIRMEQRS GLIRARLKGA AVSRGQVITF LDAHCECTAG WLEPLLARIK HDRRTVVCPI IDVISDDTFE YMAGSDMTYG GFNWKLNFRW YPVPQREMDR RKGDRTLPVR TPTMAGGLFS IDRDYFQEIG TYDAGMDIWG GENLEISFRI WQCGGTLEIV TCSHVGHVFR KATPYTFPGG TGQIINKNNR RLAEVWMDEF KNFFYIISPG VTKVDYGDIS SRLGLRRKLQ CKPFSWYLEN IYPDSQIPRH YFSLGEIRNV ETNQCLDNMA RKENEKVGIF NCHGMGGNQV FSYTANKEIR TDDLCLDVSK LNGPVTMLKC HHLKGNQLWE YDPVKLTLQH VNSNQCLDKA TEEDSQVPSI RDCTGSRSQQ WLLRNVTLPE IFHHHHHH

General References

Li C., et al, (2016) Cancer Res. 76:1273-1283.
Huang MJ., et al, (2015) Oncotarget. 6:5650-5665

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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