Recombinant human C1GalT1/C1GalT1C1 protein

Catalog Number: ATGP2181

PRODUCT INFORMATION

Expression system
E.coli

Domain
30-363aa

UniProt No.
Q9NS00

NCBI Accession No.
NP_064541

Alternative Names
Core 1 synthase glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1, Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1, C1GALT, T-synthase

PRODUCT SPECIFICATION

Molecular Weight
41.4 kDa (357aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

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

Purity
> 80% 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
C1GALT1 generates the common core 1 O-glycan structure, Gal-beta-1-3GalNAc-R, by the transfer of Gal from uDP-Gal to GalNAc-alpha-1-R. Core 1 is a precursor for many extended mucin-type O-glycans on cell surface and secreted glycoproteins. Studies in mice suggest that this gene plays a key role in thrombopoiesis and kidney homeostasis. Recombinant human C1GALT1 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

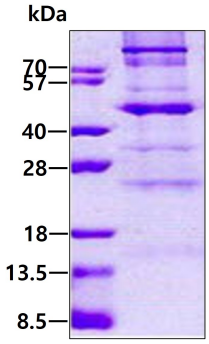
<MGSSHHHHHH SSGLVPRGSH MGS>LLGEKVD TQPNVLHNDP HARHSDDNGQ NHLEGQMNFN ADSSQHKDEN TDIAENLYQK VRILCWVMTG PQNLEKKAKH VKATWAQRCN KVLFMSSEEN KDFPAVGLKT KEGRDQLYWK TIKAFQYVHE HYLEDADWFL KADDDTYVIL DNLRWLLSKY DPEEPIYFGR RFKPYVKQGY MSGGAGYVLS KEALKRFVDA FKTDKCTHSS SIEDLALGRC MEIMNVEAGD SRDTIGKETF HPFVPEHHLI KGYLPRTFWY WNYNYYPPVE GPGCCSDLAV SFHYVDSTTM YELEYLVYHL RPYGYLYRYQ PTLPERILKE ISQANKNEDT KVKLGNP

General References

Ju T., et al. (2002) J. Biol. Chem. 277:178-186
Zhu L., et al. (2009) Kidney Int. 76:190-198

DATA

SDS-PAGE



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