Recombinant human ST6GAL1 protein

Catalog Number: ATGP3338

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
27-406aa

UniProt No.
P15907

NCBI Accession No.
NP_775323

Alternative Names
Beta-galactoside alpha-2,6-sialyltransferase 1, ST6GAL1, SIAT1, ST6GalI, ST6N

PRODUCT SPECIFICATION

Molecular Weight
44.6 kDa (389aa)

Concentration
0.5mg/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
ST6GAL1, also known as beta-galactoside alpha-2, 6-sialyltransferase 1, is a type II membrane protein localized in the trans-Golgi network and catalyzes 2, 6-sialylation of Gal beta 1, 4-GlcNAc structures on N-glycans. It is highly expressed in the liver and also expressed in most other tissues to some extent. Its deficiency causes abnormalities in B cell immunoreactivity. Recombinant human ST6GAL1, fused to His-tag at C-terminus, was

expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

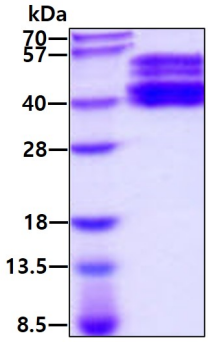
<ADP>KEKKKGS YYDSFKLQTK EFQVLKSLGK LAMGSDSQSV SSSSTQDPHR GRQTLGSLRG LAKAKPEASF QVWNKDSSSK NLIPRLQKIW KNYLSMNKYK VSYKGPGPGI KFSAEALRCH LRDHVNVSMV EVTDFPFNTS EWEGYLPKES IRTKAGPWGR CAVVSSAGSL KSSQLGREID DHDAVLRFNG APTANFQQDV GTKTTIRLMN SQLVTTEKRF LKDSLYNEGI LIVWDPSVYH SDIPKWYQNP DYNFFNNYKT YRKLHPNQPF YILKPQMPWE LWDILQEISP EEIQPNPPSS GMLGIIIMMT LCDQVDIYEF LPSKRKTDVC YYYQKFFDSA CTMGAYHPLL YEKNLVKHLN QGTDEDIYLL GKATLPGFRT IHC<HHHHHH>

General References

Kuhn B., et al. (2013) Acta Crystallogr D Biol Crystallogr. 69:1826-1838.
Wu ZL., et al. (2011) Glycobiology. 21:727-733.

DATA

SDS-PAGE



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