Recombinant human ST6GAL1 protein

Catalog Number: ATGP3035

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-406aa

UniProt No.
P15907

NCBI Accession No.
NP_775323.1

Alternative Names
Beta-galactoside alpha-26-sialyltransferase 1 isoform a, Beta-galactoside alpha-2,6-sialyltransferase 1 isoform a, SIAT1, ST6GalI, ST6N

PRODUCT SPECIFICATION

Molecular Weight
46 kDa (403aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

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 isoform a, is a member of glycosyltransferase family 29. This protein is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. ST6GAL1, which is normally found in the Golgi but can be proteolytically processed to a soluble form, is involved in the generation of the cell-surface carbohydrate determinants and differentiation antigens HB-6, CD75, and CD76. Recombinant human ST6GAL1, fused to His-

tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

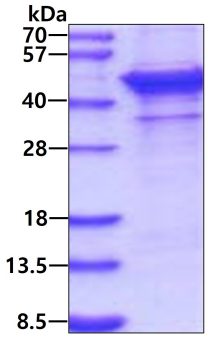
<MGSSHHHHHH SSGLVPRGSH MGS>KEKKKGS YYDSFKLQTK EFQVLKSLGK LAMGSDSQSV SSSSTQDPHR GRQTLGSLRG LAKAKPEASF QVWNKDSSSK NLIPRLQKIW KNYLSMNKYK VSYKGPGPGI KFSAEALRCH LRDHVNVSMV EVTDFPFNTS EWEGYLPKES IRTKAGPWGR CAVVSSAGSL KSSQLGREID DHDAVLRFNG APTANFQQDV GTKTTIRLMN SQLVTTEKRF LKDSLYNEGI LIVWDPSVYH SDIPKWYQNP DYNFFNNYKT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

General References

Kuhn B.,et al. (2013) Acta Crystallogr. D Biol. Crystallogr. 69 (PT 9), 1826-1838

DATA

SDS-PAGE



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