Recombinant human ST6GALNAC5 protein

Catalog Number: ATGP3933

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
30-336aa

UniProt No.
Q9BVH7

NCBI Accession No.
NP_112227

Alternative Names
Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5, GD1 alpha synthase, GalNAc alpha-2,6-sialyltransferase V, ST6GalNAc V, ST6GalNAcV, Sialyltransferase 7E, SIAT7-E, SIAT7E

PRODUCT SPECIFICATION

Molecular Weight
36.4 kDa (316aa)

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
ST6GALNAC5, also known as Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5, is a member of the glycosyltransferase 29 family. This protein is a sialyltransferase involved in the biosynthesis of ganglioside GD1a from GM1b. It is involved in the pathway protein glycosylation, which is part of Protein modification. It’s

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expression is restricted to the brain normally. It has been identified as a key player in the metastasis of breast cancer cells to the brain by potentially enabling the cancer cells to cross the blood-brain barrier. Recombinant human ST6GALNAC5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

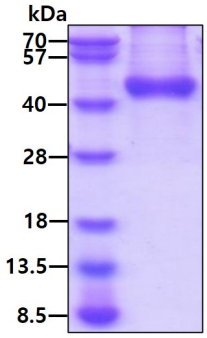
<ADL>GGQKERP PQQQQQQQQQ QQQASATGSS QPAAESSTQQ RPGVPAGPRP LDGYLGVADH KPLKMHCRDC ALVTSSGHLL HSRQGSQIDQ TECVIRMNDA PTRGYGRDVG NRTSLRVIAH SSIQRILRNR HDLLNVSQGT VFIFWGPSSY MRRDGKGQVY NNLHLLSQVL PRLKAFMITR HKMLQFDELF KQETGKDRKI SNTWLSTGWF TMTIALELCD RINVYGMVPP DFCRDPNHPS VPYHYYEPFG PDECTMYLSH ERGRKGSHHR FITEKRVFKN WARTFNIHFF QPDWKPESLA INHPENKPVF <HHHHHH>

General References

Kolter, T. et al. (2002) J. Biol. Chem. 277:25859-25862.
Okajima, T. et al. (1999) J. Biol. Chem.274:30557-30562.
Harduin-Lepers, A. et al. (2005) Glycobiology 15:805-817.

DATA

SDS-PAGE



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