

# Recombinant human ST6GALNAC5 protein

Catalog Number: ATGP3933

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

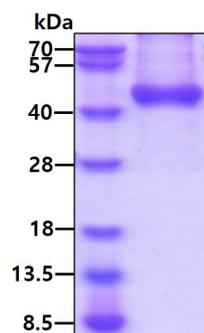
<ADL>GGQKERP PQQQQQQQQQ QQQASATGSS QPAAESSTQQ RPGVPAGPRP LDGYLGVADH KPLKMHCRDC  
ALVTSSGHLL HSRQGSQIDQ TECVIRMNDA PTRGYGRDVG NRTSLRVIAH SSIQRILRNR HDLLNVSQGT VFIFWGPSSY  
MRRDGGKQVY NNLHLLSQVL PRLKAFMITR HKMLQFDELF KQETGKDRKI SNTWLSTGWF TMTIALELCD RINVYGMVPP  
DFCRDPNHPS VPYHYEYEPFG PDECTMYLSH ERGRKGSDDR FITEKRVFKN WARTFNIHFF QPDWKPELA 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