Data Sheet (Cat.No.TMPK-00944)

TargetMol

ST3GAL4 Protein, Human, Recombinant (HA, His)

General Information

Synonyms:	STZSIAT4;ST-4;SIAT4;ST3GAL4;SAT3;CGS23;SIAT4C;Gal-NAc 6S;NANTA3;ST3GalA.2;SAT-3
Protein Construction:	Glu41-Phe333
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q11206.1
Molecular Weight:	35.4 kDa (predicted). Due to glycosylation, the protein migrates to 48-53 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 20 mM Tris, 500 mM NaCl (pH 7.5).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

ST3GAL4 gene expression is altered in different cancer types, including cervical cancer. Several mRNA transcripts have been reported for this gene. ST3GAL4 encodes for β-galactosidase α-2,3-sialyltransferase 4, involved in the biosynthesis of the tumour antigens sLe(x) and sulfo-sLe(x).

Reference

Roa-de La Cruz L, et al. Expression analysis of ST3GAL4 transcripts in cervical cancer cells. Mol Med Rep. 2018 Jul; 18(1):617-62doi: 10.3892/mmr.2018.8938. Epub 2018 Apr 27. PMID: 29749491.

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