Data Sheet (Cat.No.TMPY-00365)

TargetMol

GALNT7 Protein, Human, Recombinant (His)

General Information

Synonyms:	GalNAcT7;polypeptide N-acetylgalactosaminyltransferase 7;GALNAC-T7
Protein Construction:	A DNA sequence encoding the human GALNT7 (NP_059119.2) (Pro30-Val657) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Pro 30
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q86SF2
Molecular Weight:	73.6 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris, 150 mM NaCl, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

GalNAc-transferase-7 (GALNT7) is essential for the regulation of cell proliferation and has been implicated in tumorigenesis. Colorectal cancer (CRC) arises in a multistep molecular network process, which is from either discrete genetic perturbation or epigenetic dysregulation. GALNT7 acts as a glycosyltransferase in protein O-glycosylation, involving in the occurrence and development of CRC. GALNT7 silencing significantly attenuated the proliferation, clonogenicity and migration of LSCC cells and induced their cycling arrest. miR-30e may function as

tumor suppressors in cervical cancer through downregulation of GALNT7. Both miR-30e and its novel target, GALNT7, may play an important role in the process of cervical cancer.

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