Data Sheet (Cat.No.TMPY-01343)

TargetMol

FUT10 Protein, Human, Recombinant (His)

General Information

Synonyms:	fucosyltransferase 10 (alpha (1,3) fucosyltransferase);fucosyltransferase 10 (α (1,3) fucosyltransferase)
Protein Construction:	A DNA sequence encoding the lumenal domain of human FUT10 (Q6P4F1-1) (Leu 32-Asp 479) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6P4F1-1
Molecular Weight:	54.7 kDa (predicted); 55-65 kDa (reducing condition, due to glycosylation)

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:	> 95 % 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 PBS, 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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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.

Reference

Breton C, et al. (1998) Conserved structural features in eukaryotic and prokaryotic fucosyltransferases. Glycobiology. 8(1): 87-94.
Oriol R, et al. (1999) Divergent evolution of fucosyltransferase genes from vertebrates, invertebrates, and bacteria. Glycobiology. 9(4): 323-34.
de Vries T, et al. (2001) Fucosyltransferases: structure / function studies. Glycobiology. 11(10): 119-128.
Baboval T, et al. (2002) Comparison of human and mouse Fuc-TX and Fuc-TXI genes, and expression studies in the mouse. Mamm Genome. 13(9): 538-41.

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