

Product Data Sheet

FUT10 Protein, Human (HEK293, His)

Cat. No.:	HY-P76941
Synonyms:	Alpha-(1,3)-fucosyltransferase 10; Fucosyltransferase X; Fuc-TX; Fucosyltransferase 10
Species:	Human
Source:	HEK293
Accession:	Q6P4F1 (L32-D479)
Gene ID:	84750
Molecular Weight:	55-65 kDa

DDODEDTIES	
PROPERTIES	
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION	
Background	The FUT10 protein takes center stage in glycosylation processes by predominantly fucosylating the innermost N-acet
	glucosamine (GlcNAc) residue in biantennary N-glycan acceptors. This enzymatic activity is postulated to yield the co
	alpha(1->3)-fucose epitope within the chitobiose unit of biantennary N-glycans, serving as a recognition signal for the
	targeted degradation of aberrantly folded glycoproteins. Additionally, FUT10 plays a crucial role in the biosynthesis o
	X-carrying biantennary N-glycans, contributing to the regulation of neuron stem cell self-renewal during brain develo
	The enzyme catalyzes the transfer of the fucosyl moiety from GDP-beta-L-fucose to the innermost GlcNAc residue in
	biantennary N-glycan acceptors, while notably avoiding fucosylation of GlcNAc within the type 2 lactosamine unit.

Caution: Product has not been fully validated for medical applications. For research use only.

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