

GALNT3 Protein, Human (HEK293, His)

Cat. No.:	HY-P70831
Synonyms:	Polypeptide N-acetylgalactosaminyltransferase 3; Polypeptide GalNAc transferase 3; GalNAc-T3; pp-GaNTase 3; Protein-UDP acetylgalactosaminyltransferase 3; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 3; HFTC; HHS
Species:	Human
Source:	HEK293
Accession:	Q14435 (Q38-D633)
Gene ID:	2591
Molecular Weight:	Approximately 80.0 kDa

PROPERTIES

AA Sequence

Q R E V S V Q Y S K	E E S R M E R N M K	N K N K M L D L M L	E A V N N I K D A M
P K M Q I G A P V R	Q N I D A G E R P C	L Q G Y Y T A A E L	K P V L D R P P Q D
S N A P G A S G K A	F K T T N L S V E E	Q K E K E R G E A K	H C F N A F A S D R
I S L H R D L G P D	T R P P E C I E Q K	F K R C P P L P T T	S V I I V F H N E A
W S T L L R T V H S	V L Y S S P A I L L	K E I I L V D D A S	V D E Y L H D K L D
E Y V K Q F S I V K	I V R Q R E R K G L	I T A R L L G A T V	A T A E T L T F L D
A H C E C F Y G W L	E P L L A R I A E N	Y T A V V S P D I A	S I D L N T F E F N
K P S P Y G S N H N	R G N F D W S L S F	G W E S L P D H E K	Q R R K D E T Y P I
K T P T F A G G L F	S I S K E Y F E Y I	G S Y D E E M E I W	G G E N I E M S F R
V W Q C G G Q L E I	M P C S V V G H V F	R S K S P H S F P K	G T Q V I A R N Q V
R L A E V W M D E Y	K E I F Y R R N T D	A A K I V K Q K A F	G D L S K R F E I K
H R L Q C K N F T W	Y L N N I Y P E V Y	V P D L N P V I S G	Y I K S V G Q P L C
L D V G E N N Q G G	K P L I M Y T C H G	L G G N Q Y F E Y S	A Q H E I R H N I Q
K E L C L H A A Q G	L V Q L K A C T Y K	G H K T V V T G E Q	I W E I Q K D Q L L
Y N P F L K M C L S	A N G E H P S L V S	C N P S D P L Q K W	I L S Q N D

Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance

Solution.

Formulation

Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

N/A

Storage & Stability

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice.

DESCRIPTION

Background

GALNT3 protein serves as a crucial catalyst in the initiation of O-linked oligosaccharide biosynthesis by transferring an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. This enzymatic activity, demonstrated on various substrates including HIV envelope glycoprotein gp120, EA2, MUC2, MUC1A, MUC5AC, and possibly fibronectin and FGF23, plays a central role in the glycosylation processes essential for the proper functioning of numerous proteins involved in diverse cellular functions.

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

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