GALNT10 Protein, Human (HEK293, His)

Cat. No.:	HY-P76354
Synonyms:	Polypeptide N-acetylgalactosaminyltransferase 10; GalNAc-T10
Species:	Human
Source:	HEK293
Accession:	Q86SR1-1/NP_938080.1 (T39-N603)
Gene ID:	55568
Molecular Weight:	Approximately 70-75 kDa due to the glycosylation.

PROPERTIES

AA Sequence	T P G G S G A A V A P A A G Q G S H S R Q K K T F F L G D G Q K L K D W H D K E A I R R D A Q R V G N G E Q G R P Y P M T D A E R V D Q A Y R E N G F N I Y V S D K I S L N R S L P D I R H P N C N S K R Y L E T L P N T S I I I P F H N E G W S S L L R T V H S V L N R S P P E L V A E I V L V D D F S D R E H L K K P L E D Y M A L F P S V R I L R T K K R E G L I R T R M L G A S V A T G D V I T F L D S H C E A N V N W L P P L L D R I A R N R K T I V C P M I D V I D H D D F R Y E T Q A G D A M R G A F D W E M Y Y K R I P I P P E L Q K A D P S D P F E S P V M A G G L F A V D R K W F W E L G G Y D P G L E I W G G E Q Y E I S F K V W M C G G R M E D I P C S R V G H I Y R K Y V P Y K V P A G V S L A R N L K R V A E V W M D E Y A E Y I Y Q R R P E Y R H L S A G D V A V Q K K L R S S L N C K S F K W F M T K I A W D L P K F Y P P V E P P A A A W G E I R N V G T G L C A D T K H G A L G S P L R L E G C V R G R G E A A W N N M Q V F T F T W R E D I R P G D P Q H T K K F C F D A I S H T S P V T L Y D C H S M K G N Q L W K Y R K D K T L Y H P V S G S C M D C S E S D H R I F M N T C N P S S L T Q Q W L F E H T N S T V L E K F N R N
Biological Activity	Measured by its ability to transfer GalNAc from UDP-GalNAc to peptide MUC5AC-3/13 that incubate at 37°C for 20 min. The specific activity is 688.65 pmol/min/μg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/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	GALNT10, a member of the GALNT (N-acetylgalactosaminyltransferase) family, serves a pivotal role in the initiation of O-linked oligosaccharide biosynthesis. This enzyme catalyzes the transfer of an N-acetyl-D-galactosamine (GalNAc) residue to a serine or threonine residue on the protein receptor, marking the initial step in the glycosylation of proteins. GALNT10 exhibits its glycosyltransferase activity towards specific substrates such as Muc5Ac and EA2 peptide. Through this process, GALNT10 contributes to the diversification and modification of proteins by adding sugar moieties, thereby impacting various cellular functions and processes. The enzyme's specificity for certain substrates underscores its role in regulating glycosylation patterns in biological systems.

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

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