

GALNT2 Protein, Human (HEK293, His)

Cat. No.:	HY-P76355
Synonyms:	Polypeptide N-acetylgalactosaminyltransferase 2; GalNAc-T2
Species:	Human
Source:	HEK293
Accession:	Q10471-1/NP_004472.1 (K52-Q571)
Gene ID:	2590
Molecular Weight:	Approximately 63 kDa

PROPERTIES

AA Sequence	<div> <div> K K K D L H H S N G V R S G Q D P Y A R R V D L P A T S V V I L V D D Y S N D P A D A A Q A K V L T I I D V I N M D N F S R Q G N P V A P I G G E N L E I S F R G S G T V F A R N T Q S R L E L R K K L Q G T N C L D T L G H M D L C L T V V D R H V G S N L C L D </div> <div> E E K A Q S M E T L N K F N Q V E S D K I T F H N E A R S A E D G A L L G K I E F L D S H C E C N E Q Y V G A S A D L K K T P M I A G G L F V W Q C G G S L E I R R A A E V W M D E S C K P F K W Y L E H F A D G V V G V Y R A P G S L I K L Q S R T A K S G G L S </div> <div> P P G K V R W P D F L R M D R A I P D T L L R T V V S V L K K V R V L R N D R R H W L E P L L E R V G G F D W N L V F K V M D K F Y F E E L I P C S R V G H V F Y K N F Y Y A A V P N V Y P E L R V P D E C H N A G G N Q E G C R E N D S R Q K V E V C G P A L S Q </div> <div> N Q E A Y V G G T M R H D Q C Q R K Q W K S P P H L I K E I E G L M R S R V R G A E D R T R V V S P W D Y M T P E Q R R G K Y D M M M D V W R K Q H P Y T F P G S A R N V P Y G N I H Q D I A F G A L Q W A L T K E K S V K W E Q I E G N S K L Q W K F T L N L Q Q </div> </div>
Biological Activity	Measured by its ability to transfer GalNAc from UDP-GalNAc to EA2 that incubate at 37°C for 20 min. The specific activity is 379.51 pmol/min/μg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 25 mM Tris, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
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

GALNT2 protein serves as a key enzyme in O-linked oligosaccharide biosynthesis, initiating the process by transferring an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. This enzymatic activity exhibits a wide substrate spectrum, including peptides such as EA2, Muc5AC, Muc1a, and Muc1b. GALNT2 is implicated in the O-linked glycosylation of critical proteins, including the immunoglobulin A1 (IgA1) hinge region, APOC-III, ANGPTL3, and PLTP. Additionally, it plays a role in the regulation of high-density lipoprotein cholesterol (HDL-C) metabolism, contributing to the intricate processes governing lipid homeostasis.

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

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