

## GALNT2 Protein, Human (HEK293, His)

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

### PROPERTIES

#### AA Sequence

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

**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<sub>2</sub>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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