

B3GALT Protein, Human (HEK293, His)

Cat. No.:	HY-P76740
Synonyms:	Beta-1,3-glucosyltransferase; Beta3Glc-T; B3GLCT; B3GTL
Species:	Human
Source:	HEK293
Accession:	JC8008 (S29-F494)
Gene ID:	/
Molecular Weight:	Approximately 56 kDa

PROPERTIES

AA Sequence	<pre> S E D T K K E V K Q S Q D L E K S G I S R K N D I D L K G I V F V I Q S Q S N S F H A K R A E Q L K K S I L K Q A A D L T Q E L P S V L L L H Q L A K Q E G A W T I L P L L P H F S V T Y S R N S S W I F F C E E E T R I Q I P K L L E T L R R Y D P S K E W F L G K A L H D E E A T I I H H Y A F S E N P T V F K Y P D F A A G W A L S I P L V N K L T K R L K S E S L K S D F T I D L K H E I A L Y I W D K G G G P P L T P V P E F C T N D V D F Y C A T T F H S F L P L C R K P V K K K D I F V A V K T C K K F H G D R I P I V K Q T W E S Q A S L I E Y Y S D Y T E N S I P T V D L G I P N T D R G H C G K T F A I L E R F L N R S Q D K T A W L V I V D D D T L I S I S R L Q H L L S C Y D S G K P V F L G E R Y G Y G L G T G G Y S Y I T G G G G M V F S R E A V R R L L A S K C R C Y S N D A P D D M V L G M C F S G L G I P V T H S P L F H Q A R P V D Y P K D Y L S H Q V P I S F H K H W N I D P V K V Y F T W L A P S D E D K A R Q E T Q K G F </pre>
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.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

B3GALTL is a novel glycosyltransferase found in multicellular animals such as mammals, insects, and nematodes. B3GALTL plays important roles in variety of biological processes and encodes enzymes that catalyze the attachment of asugar molecule to specific acceptor sites. B3GALTL is involved in the synthesis of the disaccharide Glc- β 1,3-Fuc-O-, which occurs on thrombospondin type 1 repeat (TSR) of many biologically important molecules. It is present in many human and mouse tissues, with heart, kidney, and brain being major sites of expression in both species. Mutations in the B3GALTL gene cause Peters Plus syndrome. In addition, B3GALTL is overexpressed in thyroid oncocytic tumors^{[1][2]}.

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

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