

## B3GNT2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76160
Synonyms:	N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase 2; B3GALT7; B3GNT1
Species:	Human
Source:	HEK293
Accession:	Q9NY97 (K29-C397)
Gene ID:	10678
Molecular Weight:	Approximately 95-130 kDa

### PROPERTIES

AA Sequence	<pre> K S S S Q E K N G K   G E V I I P K E K F   W K I S T P P E A Y   W N R E Q E K L N R Q Y N P I L S M L T   N Q T G E A G R L S   N I S H L N Y C E P   D L R V T S V V T G F N N L P D R F K D   F L L Y L R C R N Y   S L L I D Q P D K C   A K K P F L L L A I K S L T P H F A R R   Q A I R E S W G Q E   S N A G N Q T V V R   V F L L G Q T P P E D N H P D L S D M L   K F E S E K H Q D I   L M W N Y R D T F F   N L S L K E V L F L R W V S T S C P D T   E F V F K G D D D V   F V N T H H I L N Y   L N S L S K T K A K D L F I G D V I H N   A G P H R D K K L K   Y Y I P E V V Y S G   L Y P P Y A G G G G F L Y S G H L A L R   L Y H I T D Q V H L   Y P I D D V Y T G M   C L Q K L G L V P E K H K G F R T F D I   E E K N K N N I C S   Y V D L M L V H S R   K P Q E M I D I W S Q L Q S A H L K C </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 <sub>2</sub> 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

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**Background**

Alcohol dehydrogenase, a member of the zinc-containing alcohol dehydrogenase family, plays a crucial role in the oxidation of alcohols to their corresponding carbonyl compounds. This enzyme, widely distributed across various organisms, facilitates the metabolism of ethanol and other aliphatic alcohols. The zinc ion, a structural component of the active site, is instrumental in catalyzing the conversion of substrates through the dehydrogenation reaction. Beyond its pivotal role in alcohol metabolism, alcohol dehydrogenase is implicated in diverse physiological processes, contributing to the detoxification of alcohols and maintaining cellular redox balance. The presence of this enzyme family underscores its evolutionary significance and physiological importance across different biological systems.

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

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