Animal-Free Galectin-8/LGALS8 Protein, Human (His)

Cat. No.:	HY-P700081AF
Synonyms:	Galectin-8; Galectin-8; Gal-8; Po66 Carbohydrate-Binding Protein; Po66-CBP; Prostate Carcinoma Tumor Antigen 1; PCTA-1; LGALS8
Species:	Human
Source:	E. coli
Accession:	O00214 (M2-W317)
Gene ID:	3964
Molecular Weight:	Approximately 36.6 kDa

PROPERTIES

AA Sequence	M L S L N N L Q N I I Y N P V I P F V G T I P D Q L D P G T L I V I R G H V P S D A D R F Q V D L Q N G S S M K P R A D V A F H F N P R F K R A G C I V C N T L I N E K W G R E E I T Y D T P F K R E K S F E I V I M V L K D K F Q V A V N G K H T L L Y G H R I G P E K I D T L G I Y G K V N I H S I G F S F S S D L Q S T Q A S S L E L T E I S R E N V P K S G T P Q L R L P F A A R L N T P M G P G R T V V V K G E V N A N A K S F N V D L L A G K S K D I A L H L N P R L N I K A F V R N S F L Q E S W G E E E R N I T S F P F S P G M Y F E M I I Y C D V R E F K V A V N G V H S L E Y K H R F K E L S S I D T L E I N G D I H L L E V R S W
Biological Activity	Measured by its ability to agglutinate human red blood cells. The ED_{50} for this effect is <8 μg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 μg of the protein by the 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	B3GNT4, a key enzyme in glycosylation processes, functions as a beta-1,3-N-acetylglucosaminyltransferase responsible for synthesizing poly-N-acetyllactosamine. This enzyme plays a crucial role in the modification of glycoproteins and glycolipids by catalyzing the transfer of N-acetylglucosamine residues onto acceptor molecules. Notably, B3GNT4 exhibits specific

activity for type 2 oligosaccharides, contributing to the diversification and complexity of glycan structures. The synthesis of poly-N-acetyllactosamine by B3GNT4 underscores its significance in modulating cellular interactions, as alterations in glycan structures can impact various biological processes, including cell adhesion, signaling, and recognition events.

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

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