

## MAN1A2 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P76485
<b>Synonyms:</b>	Mannosyl-oligosaccharide 1,2-alpha-mannosidase IB; Alpha-1,2-mannosidase IB; MAN1B
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	O60476 (P58-R641)
<b>Gene ID:</b>	10905
<b>Molecular Weight:</b>	Approximately 69 kDa.

### PROPERTIES

<b>AA Sequence</b>	<pre> P D S S K H K R F D   L G L E D V L I P H   V D A G K G A K N P   G V F L I H G P D E H R H R E E E E R L   R N K I R A D H E K   A L E E A K E K L R   K S R E E I R A E I Q T E K N K V V Q E   M K I K E N K P L P   P V P I P N L V G I   R G G D P E D N D I R E K R E K I K E M   M K H A W D N Y R T   Y G W G H N E L R P   I A R K G H S P N I F G S S Q M G A T I   V D A L D T L Y I M   G L H D E F L D G Q   R W I E D N L D F S V N S E V S V F E V   N I R F I G G L L A   A Y Y L S G E E I F   K I K A V Q L A E K L L P A F N T P T G   I P W A M V N L K S   G V G R N W G W A S   A G S S I L A E F G T L H M E F I H L S   Y L T G D L T Y Y K   K V M H I R K L L Q   K M D R P N G L Y P N Y L N P R T G R W   G Q Y H T S V G G L   G D S F Y E Y L L K   A W L M S D K T D H E A R K M Y D D A I   E A I E K H L I K K   S R G G L T F I G E   W K N G H L E K K M G H L A C F A G G M   F A L G A D G S R A   D K A G H Y L E L G   A E I A R T C H E S Y D R T A L K L G P   E S F K F D G A V E   A V A V R Q A E K Y   Y I L R P E V I E T Y W Y L W R F T H D   P R Y R Q W G W E A   A L A I E K Y C R V   N G G F S G V K D V Y S S T P T H D D V   Q Q S F F L A E T L   K Y L Y L L F S G D   D L L P L D H W V F N T E A H P L P V L   H L A N T T L S G N   P A V R </pre>
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	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).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

The MAN1A2 Protein plays a crucial role in the maturation of Asn-linked oligosaccharides by sequentially trimming alpha-1,2-linked mannose residues from Man(9)GlcNAc(2) to generate Man(5)GlcNAc(2). As part of the glycosylation process, MAN1A2 contributes to the stepwise modification of oligosaccharide structures, playing a key role in the progressive trimming of mannose residues. This enzymatic activity is pivotal for the generation of mature glycan structures, ensuring the proper functional maturation of glycoproteins. MAN1A2's involvement in oligosaccharide processing highlights its significance in the intricate network of cellular processes governing glycosylation and protein maturation.

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

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