

Recombinant Human MAN1A1

Cat. No. MAN1A1-27144TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human alpha 1,2 Mannosidase IA (aa 110-199) with a N terminal proprietary tag: predicted molecular weight 35.53 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	90 amino acids
Description	This gene encodes a class I mammalian Golgi 1,2-mannosidase which is a type II transmembrane protein. This protein catalyzes the removal of 3 distinct mannose residues from peptide-bound Man(9)-GlcNAc(2) oligosaccharides and belongs to family 47 of glycosyl hydrolases.
Molecular Weight	35.530kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids PGDPEAALEDNLARIRENHERALREAKETLQKLPEEIQRDILLEKKKVAQDQLRDKAP
FRGLPPVDFVPPIGVESREPADAAIREKRAKI

Sequence Similarities Belongs to the glycosyl hydrolase 47 family.

GENE INFORMATION

Gene Name MAN1A1 mannosidase, alpha, class 1A, member 1 [Homo sapiens]

Official Symbol MAN1A1

Synonyms MAN1A1; mannosidase, alpha, class 1A, member 1; mannosyl-oligosaccharide 1,2-alpha-mannosidase IA;

Gene ID 4121

mRNA Refseq NM_005907

Protein Refseq NP_005898

MIM 604344

Uniprot ID P33908

Chromosome Location 6q22

Pathway Asparagine N-linked glycosylation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem;

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Function

calcium ion binding; hydrolase activity, acting on glycosyl bonds; mannosidase activity; mannosyl-oligosaccharide 1,2-alpha-mannosidase activity;

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