Peptide-N (4)- (N-Acetyl-Beta-Glucosaminyl)asparagine Amidase (ngly1) Danio Rerio Recombinant Protein

PRODUCT OVERVIEW

Product Name	Peptide-N (4)- (N-acetyl-beta-glucosaminyl)asparagine amidase (ngly1), Recombinant Protein
Full Product Name	Recombinant Danio rerio Peptide-N (4)- (N-acetyl-beta-glucosaminyl)asparagine amidase (ngly1), partial
Product Gene Name	ngly1 recombinant protein
Product Synonym Gene Name	ngly1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	72,489 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q503I8
Species	Zebrafish
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ngly1 recombinant protein	MBS1285218 is a recombinant protein targeting ngly1. Also known as Recombinant Danio rerio Peptide-N (4)- (N-acetyl-beta-glucosaminyl)asparagine amidase (ngly1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ngly1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ngly1. It may not necessarily be applicable to this product.

NCBI GI #	66472548
NCBI GeneID	553627
NCBI Accession #	NP_001018437.1
UniProt Primary Accession #	Q503I8
UniProt Related Accession #	Q503I8
GenBank Nucleotide #	NM_001020601.1
NCBI Official Full Name	peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase
NCBI Official Synonym Full Names	N-glycanase 1

NCBI Official Symbol	ngly1
NCBI Official Synonym Symbols	im:6895151; zgc:110561
UniProt Protein Name	Peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase
UniProt Synonym Protein Names	N-glycanase 1; Peptide:N-glycanase
UniProt Gene Name	ngly1
UniProt Synonym Gene Names	PNGase
NCBI Protein Information	peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase
UniProt Comments for ngly1	Specifically deglycosylates the denatured form of N-linked glycoproteins in the cytoplasm and assists their proteasome-mediated degradation. Cleaves the beta-aspartyl-glucosamine (GlcNAc) of the glycan and the amide side chain of Asn, converting Asn to Asp. Prefers proteins containing high-mannose over those bearing complex type oligosaccharides. Can recognize misfolded proteins in the endoplasmic reticulum that are exported to the cytosol to be destroyed and deglycosylate them, while it has no activity toward native proteins. Deglycosylation is a prerequisite for subsequent proteasome-mediated degradation of some, but not all, misfolded glycoproteins ().
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