Recombinant Mouse Ngly1 Protein, Myc/DDK-tagged

Cat. No. Ngly1-4409M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length N-glycanase 1 (Ngly1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	74.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ngly1 N-glycanase 1 [Mus musculus (house mouse)]
Official Symbol	Ngly1
Synonyms	Ngly1; N-glycanase 1; Pn; Png1; PNGase; 1110002C09Rik; peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase; peptide N-glycanase homolog; EC 3.5.1.52
Gene ID	59007
mRNA Refseq	NM_021504
Protein Refseq	NP_067479
UniProt ID	Q9JI78

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