

Product datasheet for **TP318271M**

NAGPA (NM_016256) Human Recombinant Protein

Product data:

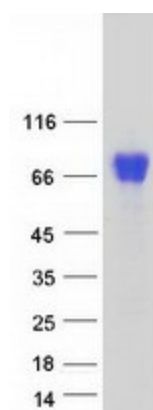
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (NAGPA), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218271 representing NM_016256 Red =Cloning site Green =Tags(s) MATSTGRWLLLRLALFGFLWEASGGLDSGASRDDDLLLLPYPRARARLPRDCTRVRAGNREHESWPPPPAT PGAGGLAVRTFVSHFRDRAVAGHLTRAVEPLRTFSVLEPGGPGGCAARRRATVEETARAADCRAVQNGGF FRMNSGECLGNVSDERRVSSSGGLQNAQFGIRRDGTLVTGYLSEEEVLDTENPFVQLLSGVVWLIRNGS IYINESQATECDETQETGSFSKFVNVISARTAIGHDRKGQLVLFHADGQTEQRGINLWEMAEFLKQDVV NAINLDGGGSATFVLNGLTASYPDHCQDNMWRCPRQVSTWCVHEPRCQPPDCHGHGTCVDGYCQCTGH FWRGPGCDELDCGPSNCSQHGLCTETGCRCDAGWTGSNCSEECPLGWHPGQCQRPKCEHHPCDPKTGN CSVSRVKQCLQPPEATLRAGELFFTRTAWLALTALAFLLLSIAANLSLLLSRAERNRRLHGDYAYHP LQEMNGEPLAAEKEQPGGAHNPFKD TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	53.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_057340
Locus ID:	51172
UniProt ID:	Q9UK23
RefSeq Size:	2219
Cytogenetics:	16p13.3
RefSeq ORF:	1545
Synonyms:	APAA; UCE
Summary:	Hydrolases are transported to lysosomes after binding to mannose 6-phosphate receptors in the trans-Golgi network. This gene encodes the enzyme that catalyzes the second step in the formation of the mannose 6-phosphate recognition marker on lysosomal hydrolases. Commonly known as 'uncovering enzyme' or UCE, this enzyme removes N-acetyl-D-glucosamine (GlcNAc) residues from GlcNAc-alpha-P-mannose moieties and thereby produces the recognition marker. The encoded preproprotein is proteolytically processed by furin to generate the mature enzyme, a homotetramer of two disulfide-linked homodimers. Mutations in this gene are associated with developmental stuttering in human patients. [provided by RefSeq, Oct 2015]
Protein Families:	Transmembrane
Protein Pathways:	Lysosome

Product images:



Coomassie blue staining of purified NAGPA protein (Cat# [TP318271]). The protein was produced from HEK293T cells transfected with NAGPA cDNA clone (Cat# [RC218271]) using MegaTran 2.0 (Cat# [TT210002]).