

Product datasheet for PH318271

NAGPA (NM_016256) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NAGPA MS Standard C13 and N15-labeled recombinant protein (NP_057340)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218271
Predicted MW:	56.11 kDa
Protein Sequence:	>RC218271 representing NM_016256 Red=Cloning site Green=Tags(s)

MATSTGRWLLRLALFGFLWEASGGLDSGASRDDDLLLLPYPRARARLPRDCTRVVRAGNREHESWPPPPAT
PGAGGLAVRTFVSHFRDRAVAGHLTRAVEPLRTFSVLEPGGPGGCAARRRATVEETARAADCRAVQNGGF
FRMNSGECLGNVSDERRVSSSGGLQNAQFGIRRDGTLVTGYLSEEEVLDTENPFVQLLSGVVWLIRNGS
IYINESQATECDETQETGFSKFNVISARTAIGHDRKGQLVLFHADGQTEQRGINLWEMAEFLLKQDVV
NAINLDGGGSATFVLNGLASYPDHCQDNMWRCPQVSTVVCVHEPRCQPPDCHGHGTCVDGYCQCTGH
FWRGPGCDELDCGPSNCSQHGLCTETGCRCDAGWTGSNCSEECPLGWHGPGCQRPCKCEHHPCDPKTGN
CSVSRVKQCLQPPEATLRAGELSFTRTAWLALTLALAFLLLISIAANLSLLLRAERNRRLHGDYAYHP
LQEMNGEPLAAEKEQPGGAHNPFKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_057340
RefSeq Size:	2219
RefSeq ORF:	1545



[View online »](#)

Synonyms: APAA; UCE

Locus ID: 51172

UniProt ID: [Q9UK23](#)

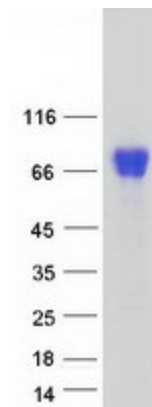
Cytogenetics: 16p13.3

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]).