

Recombinant Full Length Human NAGPA Protein, C-Flag-tagged

Cat. No. NAGPA-215HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NAGPA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	53.3 kDa
AA Sequence	MATSTGRWLLRLALFGFLWEASGGLDSGASRDDDLLLPYPRARARLPRDCTRVRA GNREHESWPPPPAT PGAGGLAVRTFVSHFRDRAVAGHLTRAVEPLRTFSVLEPGG PGGCAARRRATVEETARAADCRVAQNGGF FRMNSGECLGNVVSDEERRVSSSGGL

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QNAQFGIRRDGTLVTGYLSEEEVLDTENPFVQLLSGVVWLIRNGS IYINESQATECD
 ETQETGSFSKFVNVISARTAIGHDRKGQLVLFHADGQTEQRGINLWEMAEFLLKQDV
 V NAINLDGGGSATFVLNGTLASYPSDHCQDNMWRCPRQVSTVVCVHEPRCQPPD
 CHGHGTCVDGYCQCTGH FWRGPGCDELDCGPSNCSQHGLCTETGCRCDAGWT
 GSNCSEECPLGWHGPGCQRPCKEHHPCDPKTGN CSVSRVKQCLQPPEATLRA
 GELSFFTRTAWLALTALAFLLLSIAANLSLLLSRAERNRRLHGDYAYHP
 LQEMNGEPLAAEKEQPGGAHNPFKDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Lysosome
Full Length	Full L.

GENE INFORMATION

Gene Name NAGPA N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase [Homo sapiens (human)]

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Official Symbol	NAGPA
Synonyms	UCE; APAA
Gene ID	51172
mRNA Refseq	NM_016256.4
Protein Refseq	NP_057340.2
MIM	607985
UniProt ID	Q9UK23

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