

Product Information

MemDX™ Membrane Protein Human NAGPA (N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase) Full Length

Cat. No.: **MPC4080K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human NAGPA membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NAGPA

Protein Length

Full length

Protein Class

Receptor

TMD

1

Sequence

MATSTGRWLLRLALFGFLWEASGGLDSGASRDDDLLLLPYPRARARLPRD
CTRV RAGNREHESWPPPPATPGAGGLAVRTFVSHFRDRAVAGHLTRAVEP
LRTFSVLEPGGPGGCAARRRATVEETARAADCRVAQNGGFFRMNSGECLG
NVVSDERRVSSSGGLQNAQFGIRRDGTLVTGYLSEEEVLDTENPFVQLLS
GVVWLIRNGSIYINESQATECDETQETGSFSKFVNVISARTAIGHDRKGQ
LVLFHADGQTEQRGINLWEMAEFLLKQDVVNAINLDGGGSATFVLNGTLA
SYPSDHCQDNMWRCPRQVSTVVCVHEPRCQPPDCHGHGTCVDGHCQCTGH
FWRGPGCDELDCGPSNCSQHGLCTETGCRC DAGWTGSNCSEECPLGWHGP
GCQRPCKCEHHCPD PKTGNC SVSRVKQCLQPPEATLRAGELSFFTRTAW
LALTLALAFLLL ISTAANLSLLLSRAERNRRLHGDYAYHPLQEMNGEPLA
AEKEQPGGAHNPFKD

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

NAGPA

Full Name

N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase

Introduction

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.

Alternative Names

NAGPA; UCE; APAA; alpha-N-acetylglucosaminyl phosphodiesterase; lysosomal alpha-N-acetylglucosaminidase; mannose 6-phosphate-uncovering enzyme; phosphodiester alpha-GlcNAcase; N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase

Gene ID

[51172](#)

UniProt ID

[Q9UK23](#)