

Product Information

MemDX™ Membrane Protein Human SMPD1 (Sphingomyelin phosphodiesterase 1) for

Antibody Discovery

Cat. No.: **MP0654J**

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

This product is a 65 kDa Human SMPD1 membrane protein expressed in HEK293T. 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

SMPD1

Protein Length

Full-length

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

65 kDa

TMD

1

Sequence

MPRYGASLRQSCPRSGREQGQDGTAGAPGLLWMGLVLALALALALALALSDSRVLWAPAEAHPLSPQGHP
ARLHRIVPRLRDVFGWGNLTCPIKGLFTAINLGLKKEPNVARVGSVAIKLCNLLKIAPPAVCQSIVHLF
EDDMVEVWRRSVLSPSEACGLLLGSTCGHWDIFSSWNISLPTVPKPPKPPSPAPGAPVSRILFLTDLH
WDHDYLEGTDPCADPLCCRRGSLPPASRPGAGYWGEYSKCDLPLRTLESLLSGLGPAGPFDMVYWTGD
IPAHDVWHQTRQDQLRALTTVTALVRKFLGPVPVYPAVGNHESTPVNSFPPFIEGNHSSRWLYEAMAKA
WEPWLPAAELRTLRIIGGFYALSPYPGLRLISLNMNFCSENFWLLINSTDPAGQLQWLVGELQAAEDRGD
KVHIIHGHPGHCLKSWSWNYRIVARYENTLAAQFFGHTHVDEFEVFYDEETLSRPLAVAFAPSATTY
IGLNPGYRVYQIDGNYSGSSHVLDHETYILNLTQANIPGAIPHWQLLYRARETYGLPNTLPTAWHNLVY
RMRGDMQLFQTFWFLYHKGHPPSEPCGTPCRLATLCAQLSARADSPALCRHLMPDGSLPEAQLSWPRPLF
C

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

SMPD1

Full Name

Sphingomyelin phosphodiesterase 1

Introduction

The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified.

Alternative Names

ASM; NPD; ASMASE

Gene ID

[6609](#)

UniProt ID

[P17405](#)