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Product Information

MemDX™ Membrane Protein Human PSEN1 (Presenilin 1) Full Length

Cat. No.: **MPC1061K**
This product is for research use only and is not intended for diagnostic use.

This product is a 53.6 kDa Human PSEN1 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
PSEN1

Protein Length
Full length

Protein Class
Protease

Molecular Weight
53.6 kDa

TMD
9

Sequence
MTELPAPLSYFQNAQMSEDNHLSNTVRSQNDNRERQEHNDRRSLGHPEPL
SNGRPQGNSRQVVEQDEEEDEELTLKYGAKHVIMLFVPVTLCMVVVVATI
KSVSFYTRKDGQLIYTPFTEDTETVGQRALHSILNAAIMISVIVVMTILL
VVLYKYRCYKVIHAWLIISSLLLLFFFSFIYLGEVFKTYNVAVDYITVAL
LIWNFGVVGMISIHWKGPLRLQQAYLIMISALMALVFIKYLPEWTAWLIL
AVISVYDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTMVWLVNMAE
GDPEAQRRVSKNSKYNAESTERESQDTVAENDDGGFSEEWEAQRDSHLGP
HRSTPESRAAVQELSSSILAGEDPEERGVKLGLGDFIFYSVLVGKASATA
SGDWNTTIACFVAILIGLCLTLLLLAIFKKALPALPISITFGLVFYFATD
YLVQPFMDQLAFHQFYI

Product Description

Expression Systems
HEK293

Tag

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Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

PSEN1

Full Name

Presenilin 1

Introduction

Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined.

Alternative Names

PSEN1; AD3; FAD; PS1; PS-1; S182; ACNINV3; presenilin-1; PS1-CTF12; Protein S182; Presenilin 1

Gene ID

5663

UniProt ID

P49768

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