

# Product Information

## MemDX™ Membrane Protein Human BACE2 (Beta-secretase 2) Full Length

Cat. No.: **MPC1628K**

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

This product is a 56.1 kDa Human BACE2 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

BACE2

#### Protein Length

Full length

#### Protein Class

Protease

#### Molecular Weight

56.1 kDa

#### TMD

1

#### Sequence

MGALARALLPLLAQWLLRAAPELAPAPFTLPLRVAAATNRVVAPTPGPG  
TPAERHADGLALALEPALASPAGAAANFLAMVDNLQGDSGRGYYLEMLIGT  
PPQKLQILVDTGSSNFAVAGTPHSYIDTYFDTERSSTYRSKGFDTVKYT  
QGSWTGFVGEDLVITPKGFNTSFLVNIATIFESENFFLPGIKWNGILGLA  
YATLAKPSSSLETFFDSLVTQANIPNVFSMQMCGAGLPVAGSGTNGGSLV  
LGGIEPSLYKGDWYTPIKEEWYYQIEILKLEIGGQSLNLD CREYNADKA  
IVDSGTTLLRLPQKVFDVAVVEAVARASLIPEFSDGFWTGSQACWTNSET  
PWSYFPKISILRDENSSRSFRITLPQLYIQPMMGAGLNYECYRFGISP  
STNALVIGATVMGFGYVIFDRAQKRVGFAASPCAIEAGAAVSEISGPFST  
EDVASNCVPAQSLSEPILWIVSYALMSVCGAILLVLIVLLLLPFRQRRP  
RDPEVVNDESSLVRHRWK

### Product Description

#### Expression Systems

HEK293

#### Tag

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**

BACE2

### **Full Name**

Beta-secretase 2

### **Introduction**

This gene encodes an integral membrane glycoprotein that functions as an aspartic protease. The encoded protein cleaves amyloid precursor protein into amyloid beta peptide, which is a critical step in the etiology of Alzheimer's disease and Down syndrome. The protein precursor is further processed into an active mature peptide. Alternative splicing results in multiple transcript variants.

### **Alternative Names**

BACE2; ASP1; BAE2; DRAP; AEPLC; ALP56; ASP21; CDA13; CEAP1; 56 kDa aspartic-like protease; Down syndrome region aspartic protease; SLCO3A1/BACE2 fusion; aspartyl protease 1; beta-site APP-cleaving enzyme 2; beta-site amyloid beta A4 precursor protein-cleaving enzyme 2; memapsin-1; membrane-associated aspartic protease 1; theta-secretase; transmembrane aspartic proteinase Asp1; Beta-secretase 2

### **Gene ID**

[25825](#)

### **UniProt ID**

[Q9Y5Z0](#)