

## Product Information

### MemDX™ Membrane Protein Human FOLH1 (Folate hydrolase 1)

Cat. No.: **MP0232J**

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

This product is a 84.2 kDa Human FOLH1 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

FOLH1

##### Protein Length

Full-length

##### Protein Class

Druggable Genome, Protease, Transmembrane

##### Molecular Weight

84.2 kDa

##### TMD

1

##### Sequence

MWNLLHETDSAVATARRPRWLCAGALVLAGGFFLLGFLFGWFIKSSNEATNITPKHNMKAFLDELKAENI  
KKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYDVLLSYPNKTHPNYISIINEDGNEIFN  
TSLFEP PPPGYENVSDIVPPFSAFSPQGMPEGDLVYVNYARTEDFFKLERDMKINCSGKIVIARYGKVFR  
GNKVKNAQLAGAKGVILYSDPADYFAPGVKSYPDGWNLPGGGVQRGNILNLNGAGDPLTPGYPAN EYAYR  
RGIAEAVGLPSIPVHPIGYYDAQKLEKMGG SAPPDSSWRGSLKVPYNVGP GFTGNFSTQKV KMHIHSTN  
EVTRIYNVIGTLRGAVEPDRYVILGGHRDSWVFGGIDPQSGAAVVHEIVRSFGTLKKEGWRPRRTILFAS  
WDAEEFGLLGSTEWAEENSRLQERGVAYINADSSIEGNYTLRVDCTPLMYSLVHNLTKELKSPDEGFEG  
KSLYESWTKKSPSPEFSGMPRISKLGSGNDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYE  
LVEKFYDPMFKYHLTVAQVRGGMV FELANSIVLPFD CRDYAVVLRKYADKIYSISMKHPQEMK TYSVSFD  
SLFSAVKNFTEIASKFSERLQDFDKSNPIVLRMMNDQLMFLERAFIDPLGLPDRPFYRHVIYAPSSH NKY  
AGESFPGIYDALFDIESKVDPSKAWGEVKRQIYVAAFTVQAAAETLSEVA

#### 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**

FOLH1

**Full Name**

Folate hydrolase 1

**Introduction**

This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-L-aspartyl-L-glutamate and is expressed in a number of tissues such as prostate, central and peripheral nervous system and kidney. A mutation in this gene may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. Expression of this protein in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. In the prostate the protein is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a nearby chromosomal region. Alternative splicing gives rise to multiple transcript variants encoding several different isoforms.

**Alternative Names**

PSM; FGCP; FOLH; GCP2; PSMA; mGCP; GCPII; NAALAD1; NAALAdase

**Gene ID**

[2346](#)

**UniProt ID**

[Q04609](#)