

Recombinant Full Length Human FOLH1 Protein, C-Flag-tagged

Cat. No. FOLH1-187HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FOLH1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	84.2 kDa

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AA Sequence

MWNLLHETDSAVATARRPRWLCAGALVLAGGFFLLGFLFGWFIKSSNEATNITPKHN
MKAFLDELKAENI KKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYD
VLLSYPNKTHPNYISIINEDGNEIFN TSLFEP PPPGYENVSDIVPPFSAFSPQGMPEG
DLVYVNYARTEDFFKLERDMKINCSGKIVIRYGVKVR GNKVKNAQLAGAKGVILYS
DPADYFAPGVKSYPDGWNLPGGGVQGRNINLNGAGDPLTPGYPANEYAYR RGIA
EAVGLPSIPVHPIGYYDAQKLEKMGGSSAPPDSSWRGSLKVYPYVGPFGFTGNFSTQ
KVKMHIHSTN EVTRIYNVIGTLRGAVEPDRYVILGGHRDSWVFGGIDPQSGAAVVHE
IVRSFGTLKKEGWRPRRTILFAS WDAEEFLLGSTEWAEENSRLQERGVAYINAD
SSIEGNYTLRVDCTPLMYSLVHNLTKEKSPDEGFEG KSLYESWTKKSPSPEFSGM
PRISKLGSNDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYE LVEKF
YDPMFKYHLTVAQVRGGMVFEANSIVLPFDCRDYAVVLRKYADKIYSISMKHPQEM
KTYSVSFD SLFSAVKNFTEIASKFSERLQDFDKSNPIVLRMMNDQLMFLERAFIDPL
GLPDRPFYRHVIYAPSSH NKY
AGESFPGIYDALFDIESKVDPSKAWGEVKRQIYVAAFTVQAAAETLSEVATRTRPLE
QKLISEEDLAANDILDYKDDDDKV

Purity

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

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Druggable Genome, Protease, Transmembrane

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Full Length Full L.

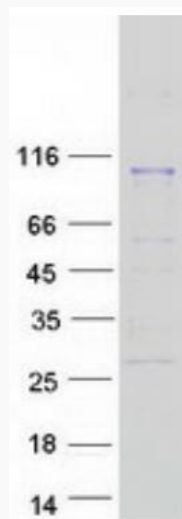
GENE INFORMATION

Gene Name	FOLH1 folate hydrolase 1 [Homo sapiens (human)]
Official Symbol	FOLH1
Synonyms	PSM; FGCP; FOLH; GCP2; PSMA; mGCP; GCPII; NAALAD1
Gene ID	2346
mRNA Refseq	NM_004476.3
Protein Refseq	NP_004467.1
MIM	600934
UniProt ID	Q04609

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Coomassie blue staining of purified FOLH1 protein.

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