

Recombinant Human FOLH1

Cat. No. FOLH1-31003TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PSMA (amino acids 1-150) with proprietary tag, 43kDa.
Species	Human
Source	E.coli
ProteinLength	150 amino acids
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.
Molecular Weight	43.000kDa inclusive of tags
Tissue specificity	Highly expressed in prostate epithelium. Detected in urinary bladder, kidney, testis,

 Tel: 1-631-559-9269 1-516-512-3133

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	ovary, fallopian tube, breast, adrenal gland, liver, esophagus, stomach, small intestine, colon and brain (at protein level). Detected in the small intestine, brain, kid
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 7.50 Constituents: 0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MWNLLHETDS AVATARRPRW LCAGALVLG GFFLLGFLFG WFIKSSNEAT NITPKHNMKAFLDELKAENI KKFLYNFTQI PHLAGTEQNF QLAKQIQSQW KEFGLDSVEL AHYDVLLSYPNKTHPNYISI INEDGNEIFN TSLFEP PPPG
Sequence Similarities	Belongs to the peptidase M28 family. M28B subfamily.

GENE INFORMATION

Gene Name	FOLH1 folate hydrolase (prostate-specific membrane antigen) 1 [Homo sapiens]
Official Symbol	FOLH1
Synonyms	FOLH1; folate hydrolase (prostate-specific membrane antigen) 1; FOLH; glutamate carboxypeptidase 2; GCP2; GCP11; glutamate carboxylase II; glutamate carboxypeptidase II; NAALAD1; NAALAdase; PSM; PSMA;
Gene ID	2346
mRNA Refseq	NM_001014986

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Protein Refseq	NP_001014986
MIM	600934
Uniprot ID	Q04609
Chromosome Location	11p11.2
Pathway	One Carbon Metabolism, organism-specific biosystem; Vitamin digestion and absorption, organism-specific biosystem; Vitamin digestion and absorption, conserved biosystem;
Function	carboxypeptidase activity; dipeptidase activity; metal ion binding; metallopeptidase activity; peptidase activity;

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