FOLH1 (Human) Recombinant Protein

Catalog # P7614 Size 50 ug

Specification

Product Description	Human FOLH1 (Q04609, 44 a.a. - 750 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in CHO 3E7 cells.
Sequence	KSSNEATNITPKHNMKAFLDELKAENIKKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVEL AHYDVLLSYPNKTHPNYISIINEDGNEIFNTSLFEPPPPGYENVSDIVPPFSAFSPQGMPEGDLVYV NYARTEDFFKLERDMKINCSGKIVIARYGKVFRGNKVKNAQLAGAKGVILYSDPADYFAPGVKSYP DGWNLPGGGVQRGNILNLNGAGDPLTPGYPANEYAYRRGIAEAVGLPSIPVHPIGYYDAQKLLEKM GGSAPPDSSWRGSLKVPYNVGPGFTGNFSTQKVKMHIHSTNEVTRIYNVIGTLRGAVEPDRYVILG GHRDSWVFGGIDPQSGAAVVHEIVRSFGTLKKEGWRPRRTILFASWDAEEFGLLGSTEWAEENS RLLQERGVAYINADSSIEGNYTLRVDCTPLMYSLVHNLTKELKSPDEGFEGKSLYESWTKKSPSPE FSGMPRISKLGSGNDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYELVEKFYDPMF KYHLTVAQVRGGMVFELANSIVLPFDCRDYAVVLRKYADKIYSISMKHPQEMKTYSVSFDSLFSAV KNFTEIASKFSERLQDFDKSNPIVLRMMNDQLMFLERAFIDPLGLPDRPFYRHVIYAPSSHNKYAG ESFPGIYDALFDIESKVDPSKAWGEVKRQIYVAAFTVQAAAETLSEVA
Host	Mammals
Form	Lyophilized
Preparation Method	Mammalian cell (CHO 3E7) expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by gel clotting method)
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/mL
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — FOLH1

Entrez GeneID	2346
Protein Accession#	Q04609
Gene Name	FOLH1
Gene Alias	FGCP, FOLH, GCP2, GCPII, NAALAD1, NAALAdase, PSM, PSMA, mGCP
Gene Description	folate hydrolase (prostate-specific membrane antigen) 1
Omim ID	600934
Gene Ontology	Hyperlink
Gene Summary	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 th e nutrient folate and the neuropeptide N-acetyl-l-aspartyl-l-glutamate and is expressed in a numbe r 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 blo od folate levels and consequent hyperhomocysteinemia. Expression of this protein in the brain ma y be involved in a number of pathological conditions associated with glutamate excitotoxicity. In th e prostate the protein is up-regulated in cancerous cells and is used as an effective diagnostic an d prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a near by chromosomal region. Alternative splicing gives rise to multiple transcript variants. [provided by RefSeq
Other Designations	N-acetylated alpha-linked acidic dipeptidase 1|cell growth-inhibiting protein 27|folate hydrolase 1|f olyl|poly-gamma-glutamate carboxypeptidase|glutamate carboxylase II|glutamate carboxypeptidas e II|membrane glutamate carboxypeptidase|prostate specific mem

Disease

- Aortic Aneurysm
- Atherosclerosis
- Brain Ischemia
- Cardiovascular Diseases
- Chromosome Aberrations
- Cleft Lip
- Cleft Palate

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- Cognition
- Colorectal Neoplasms
- Coronary Disease
- Diabetes Mellitus
- DNA Damage
- Edema
- Genetic Predisposition to Disease
- Hyperhomocysteinemia
- Hypertension
- Kidney Failure
- Micronuclei
- Neural Tube Defects
- Phenylketonuria
- Phenylketonurias
- Prostate cancer
- Prostatic Neoplasms
- Spinal Dysraphism
- Stomach Neoplasms
- Stroke
- Tobacco Use Disorder
- Vitamin B Deficiency

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