

Recombinant Human FOLH1 protein, His-tagged

Cat. No. FOLH1-7844H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FOLH1 aa. (Ala274~Leu587) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala274~Leu587
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	Freeze-dried powder
Molecular Mass	39kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 7.3.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Reporter Assays; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FOLH1 folate hydrolase 1 [Homo sapiens (human)]
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Official Symbol	FOLH1
Synonyms	Pla2g12a; phospholipase A2, group XIIA; GXII; Rossy; GXII-1; Pla2g12; mGXII-1; GXII-1-PLA2; 2310004B05Rik; group XIIA secretory phospholipase A2; group XII-1 phospholipase A2; group XIIA secreted phospholipase A2; phosphatidylcholine 2-acylhydrolase 12A
Gene ID	2346
mRNA Refseq	NM_001014986.2
Protein Refseq	NP_001014986.1
UniProt ID	Q04609
SDS-PAGE	