

Human PSMA/FOLH1 Recombinant Protein

PX-P2059-10

DESCRIPTION

Human PSMA/FOLH1 recombinant protein acts as a glutamate carboxypeptidase on various alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-l-aspartyl-l-glutamate. It is expressed in a number of tissues like prostate, kidney, central and peripheral nervous system. A mutation in this gene could 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 implicated 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.

OVERVIEW

SIZE	10 uG
ORIGIN SPECIES	Human
FRAGMENT	
PROTEIN DELIVERED WITH TAG	No
MOLECULAR WEIGHT WITH TAG IF ANY	87.36kDa
DELIVERY CONDITION	Dry Ice

PRODUCT INFORMATION

EXPRESSION SYSTEM	Eukaryotic expression
HOST	Insect
PURITY	90% 80%
PROTEIN ACCESSION	PDB: 2C6C_A
FORM	Frozen
BUFFER	PBS, pH 7.5
STABILITY & STORAGE	4°C for short term (1 week), -20°C or -80°C for long term (avoid freezing/thawing cycles; addition of 20-40% glycerol improves cryoprotection)

MORE INFO

SYNONYMS

Cell growth inhibiting protein 27, Cell growth-inhibiting gene 27 protein, FGCP, Folate hydrolase, Folate hydrolase (prostate-specific membrane antigen) 1, Folate hydrolase 1, Folate hydrolase prostate specific membrane antigen 1, FOLH, FOLH 1, Folh1, FOLH1_HUMAN, Folylpoly gamma glutamate carboxypeptidase, Folylpoly-gamma-glutamate carboxypeptidase, GCP 2, GCP II, GCP2, GCPII, GIG27, Glutamate carboxylase II, Glutamate carboxypeptidase 2, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, mGCP, N acetylated alpha linked acidic dipeptidase 1, N-acetylated-alpha-linked acidic dipeptidase I, NAALAD 1, NAALAD1, NAALAdase, NAALADase I, Prostate specific membrane antigen, Prostate specific membrane antigen variant F, Prostate-specific membrane antigen, PSM, PSMA, Pteroylpoly gamma glutamate carboxypeptidase, Pteroylpoly-gamma-glutamate carboxypeptidase

PROTEIN SEQUENCE

KSSNEATNITPKHNMKAFLDELKAENIKKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYDVLLSYPNKTHPNYISIINEDGNEIFNTSLFEP PPPGY
ENVSDIVPPFSAFSPQGMPEGDLVYVNYARTEDFFKLERDMKINCSGKIVIARYGKVFRGNKVKNAQLAGAKGVILYSDPADYFAPGVKSYPDGWNLPGGGVQR
GNILNLNGAGDPLTPGYPANAYAYRRGIAEAVGLPSIPVHPIG

For research use only.