

## Product datasheet for PH318310

### PSMA (FOLH1) (NM\_004476) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	FOLH1 MS Standard C13 and N15-labeled recombinant protein (NP_004467)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218310
Predicted MW:	84.2 kDa
Protein Sequence:	>RC218310 representing NM_004476 Red=Cloning site Green=Tags(s)

MWNLLETDSAVATARRPRWLCAGALVLAGGFLLGFLFGWFIKSSNEATNITPKHNMKAFLDELKAENI  
KKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYDVLLSYPNKTHPNYISIIINEDGNEIFN  
TSLFEPPPPGENVSDIVPPFSAFSPQGMPEGDLVYVNYARTEDFFKLERDMKINCSGKIVIARYGKVF  
GNKVKNAQLAGAKGVILYSDPADYFAPGVKSYPDGWNLPGGGVQVRGILNNGAGDPLTPGYPANEYAYR  
RGIAEAVGLPSIPVHPIGYYDAQKLEKMGGSAPPDSSWRGSLKVPYNVGPGFTGNFSTQVKMHIHSTN  
EVTRIYNVIGTLRGAVEPDRYVILGGHRDSWVFGGIDPQSGAAVVHEIVRSFGTLKKEGWRPRRTILFAS  
WDAEEFGLLGSTEWAEENSRLQERGVAYINADSSIEGNYTLRVDCTPLMYSLVHNLTKELKSPDEGFEG  
KSLYESWTKKSPSPEFSGMPRIKLGSGNDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYE  
LVEKFYDPMFKYHLTVAQVRGGMVFELANSIVLFPDCRDYAVVLRKYADKIYSISMKHPQEMKTYSVSFD  
SLFSAVKNFTEIASKFSERLQDFDKSNP.IVLRMMNDQLMFLERAFIDPLGLPDRPFYRHVIYAPSSHNY  
AGESFPGIYDALFDIESKVDPSKAWGEVKRQIYVAAFTVQAAAETLSEVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004467</a>



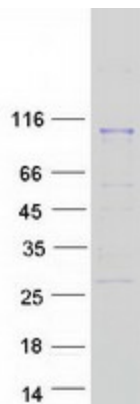
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RefSeq Size:	2653
RefSeq ORF:	2250
Synonyms:	FGCP; FOLH; GCP2; GCPII; mGCP; NAALAD1; NAALAdase; PSM; PSMA
Locus ID:	2346
UniProt ID:	<a href="#">Q04609</a>
Cytogenetics:	11p11.12

**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 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. [provided by RefSeq, Jul 2010]

**Protein Families:** Druggable Genome, Protease, Transmembrane

### Product images:



Coomassie blue staining of purified FOLH1 protein (Cat# [TP318310]). The protein was produced from HEK293T cells transfected with FOLH1 cDNA clone (Cat# [RC218310]) using MegaTran 2.0 (Cat# [TT210002]).