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Datasheet for ABIN7505193  
**PSMA Protein (AA 471-750) (His tag)**

### Overview

Quantity:	100 µg
Target:	PSMA (FOLH1)
Protein Characteristics:	AA 471-750
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSMA protein is labelled with His tag.

### Product Details

Sequence:	Tyr 471-Ala 750
Characteristics:	A DNA sequence encoding the Human PSMA / FOLH1 protein (Q04609) (Tyr 471-Ala 750) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

### Target Details

Target:	PSMA (FOLH1)
Alternative Name:	PSMA ( <a href="#">FOLH1 Products</a> )
Background:	Abbreviation: PSMA,FOLH1 Target Synonym: Glutamate carboxypeptidase 2,FGCP,GCPII,mGCP,NAALADase I,PSMA,Cell growth-inhibiting gene 27 protein,Folate hydrolase 1,FOLH1,GCP2,FGCP,GCPII,Mgcp,NAALADase I,FOLH,mGCP,NAALAD1,NAALAdase,PSM,PSMA

## Target Details

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Background: Glutamate carboxypeptidase 2, also known as FOLH1, PSMA, belongs to the M28B subfamily and the peptidase M28 family. It is highly expressed in prostate epithelium and can be detected in urinary bladder, kidney, testis, ovary, fallopian tube, breast, adrenal gland, liver, esophagus, stomach, small intestine, colon and brain (at protein level). PSMA is used as a diagnostic and prognostic indicator of prostate cancer, and as a possible marker for various neurological disorders such as schizophrenia, Alzheimer disease and Huntington disease. It has both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activity and has a preference for tri-alpha-glutamate peptides. PSMA involves in prostate tumor progression and also exhibits a dipeptidyl-peptidase IV type activity. In vitro, PSMA cleaves Gly-Pro-AMC. PSMA is stable at pH greater than 6.5.

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Molecular Weight:            Calculated MW: 30.69 kDa  
   Observed MW: 31 kDa

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UniProt:                        [Q04609](#)

## Application Details

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Restrictions:                 For Research Use only

## Handling

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Format:                         Lyophilized

Buffer:                         Lyophilized from sterile PBS, pH 7.4.  
   Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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Storage:                        4 °C,-20 °C,-80 °C

Storage Comment:            Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.  
   Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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Expiry Date:                 12 months