

## PSMA Protein, Mouse (Biotinylated, HEK293, His)

<b>Cat. No.:</b>	HY-P700006
<b>Synonyms:</b>	GCP2; PSMA; PSMAFGCP; FGCP; Folate hydrolase 1; FOLHNAALADase I; GCPII; GCPIImGCP; NAALAD1; NAALADase I; NAALADase; FOLH1; GIG27; PSM; FOLH; mGCP
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	O35409 (K45-A752)
<b>Gene ID:</b>	53320
<b>Molecular Weight:</b>	90-110 kDa

### PROPERTIES

#### AA Sequence

K P S N E A T G N V	S H S G M K K E F L	H E L K A E N I K K	F L Y N F T R T P H
L A G T Q N N F E L	A K Q I H D Q W K E	F G L D L V E L S H	Y D V L L S Y P N K
T H P N Y I S I I N	E D G N E I F K T S	L S E Q P P P G Y E	N I S D V V P P Y S
A F S P Q G T P E G	D L V Y V N Y A R T	E D F F K L E R E M	K I S C S G K I V I
A R Y G K V F R G N	M V K N A Q L A G A	K G M I L Y S D P A	D Y F V P A V K S Y
P D G W N L P G G G	V Q R G N V L N L N	G A G D P L T P G Y	P A N E H A Y R H E
L T N A V G L P S I	P V H P I G Y D D A	Q K L L E H M G G P	A P P D S S W K G G
L K V P Y N V G P G	F A G N F S T Q K V	K M H I H S Y T K V	T R I Y N V I G T L
K G A L E P D R Y V	I L G G H R D A W V	F G G I D P Q S G A	A V V H E I V R S F
G T L K K K G R R P	R R T I L F A S W D	A E E F G L L G S T	E W A E E H S R L L
Q E R G V A Y I N A	D S S I E G N Y T L	R V D C T P L M Y S	L V Y N L T K E L Q
S P D E G F E G K S	L Y D S W K E K S P	S P E F I G M P R I	S K L G S G N D F E
V F F Q R L G I A S	G R A R Y T K N W K	T N K V S S Y P L Y	H S V Y E T Y E L V
V K F Y D P T F K Y	H L T V A Q V R G A	M V F E L A N S I V	L P F D C Q S Y A V
A L K K Y A D T I Y	N I S M K H P Q E M	K A Y M I S F D S L	F S A V N N F T D V
A S K F N Q R L Q E	L D K S N P I L L R	I M N D Q L M Y L E	R A F I D P L G L P
G R P F Y R H I I Y	A P S S H N K Y A G	E S F P G I Y D A L	F D I S S K V N A S
K A W N E V K R Q I	S I A T F T V Q A A	A E T L R E V A	

<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

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recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

**DESCRIPTION**

**Background**

PSMA, a multifunctional enzyme, possesses both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activities, with a notable preference for tri-alpha-glutamate peptides. It plays a crucial role in the intestinal uptake of folate, contributing to essential metabolic processes. Within the brain, PSMA acts as a modulator of excitatory neurotransmission by hydrolyzing the neuropeptide N-acetylaspartylglutamate (NAAG), leading to the release of glutamate. Additionally, it demonstrates dipeptidyl-peptidase IV type activity and efficiently cleaves Gly-Pro-AMC in vitro, showcasing its versatile enzymatic functions.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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