

PSMA Protein, Mouse (HEK293, His)

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| Cat. No.: | HY-P71240 |
| Synonyms: | Glutamate carboxypeptidase 2; FGCP; GCPII; mGCP; NAALADase I; PSMA; Cell growth-inhibiting gene 27 protein; Folate hydrolase 1 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | Q0VDM5 (I44-A752) |
| Gene ID: | 53320 |
| Molecular Weight: | 100-120 kDa |

PROPERTIES

AA Sequence

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| I 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 | |

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| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | 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 |

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, displaying a preference for tri-alpha-glutamate peptides. In the intestinal context, it plays a vital role in folate uptake, contributing to essential metabolic processes. Within the brain, PSMA takes on a neurotransmission-modulating role by hydrolyzing the neuropeptide N-acetylaspartylglutamate (NAAG), liberating glutamate. Additionally, it exhibits dipeptidyl-peptidase IV type activity and, in vitro, effectively cleaves Gly-Pro-AMC, showcasing its versatile enzymatic functions.

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

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