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Recombinant Human PSMA/FOLH1 Protein

Catalog No.: RP02737 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2346 004609-1

Tags

N-hFc

Synonyms

GCP2; PSMA; PSMAFGCP; FGCP; Folate hydrolase 1; FOLHNAALADase I; GCPII; GCPIImGCP; NAALAD1; NAALADase I; NAALAdase; FOLH1; GIG27; PSM; FOLH;

mGCP

Product Information

Source Purification HEK293 cells ≥ 90 % as

≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by

HPLC.

Calculated MW Observed MW

105.48 kDa 130-150 kDa

Endotoxin

 $< 0.01 \; \text{EU/}\mu\text{g}$ of the protein by LAL method

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

a	400-999-6126
×	cn.market@abclonal.com.cn
	www.abclonal.com.cn

Background

Prostate-specific membrane antigen (PSMA) is an enzyme that in humans is encoded by the FOLH1 (folate hydrolase 1) gene, also known as Glutamate carboxypeptidase II (GCPII). Human PSMA is highly expressed in the prostate, roughly a hundred times greater than in most other tissues. In some prostate cancers, PSMA is the second-most upregulated gene product, with an 8- to 12-fold increase over levels in noncancerous prostate cells.

Basic Information

Description

Recombinant Human PSMA/FOLH1 Protein is expressed from Expi293 with hFc tag at the N-terminal. \Box It contains Lys44-Ala750.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

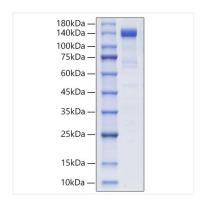
Avoid repeated freeze/thaw cycles.

Operational Notes

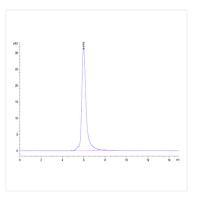
For your safety and health, please wear a lab coat and disposable gloves for handling.

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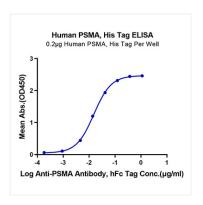
Validation Data



Recombinant Human PSMA/FOLH1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human PSMA is greater than 90% as determined by SEC-HPLC. $\label{eq:purity}$



Immobilized Human PSMA, His Tag at $2\mu g/ml$ (100 μ l/Well) on the plate. Dose response curve for Anti-PSMA Antibody, hFc Tag with the EC $_{50}$ of 15.2ng/ml determined by ELISA.