Recombinant Human PSMA/FOLH1 Protein

Catalog No.: RP00457

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Sequence Information

Species
Human

Gene ID
2346

Swiss Prot
Q04609-1

Tags
N-His

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

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
80.6 kDa

Observed MW
90-110 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial 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.

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 produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys44-Ala750) of Human PSMA/FOLH1 (Accession #Q04609-1) fused with a N-His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

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

Contact

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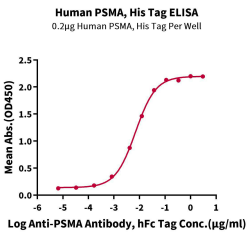
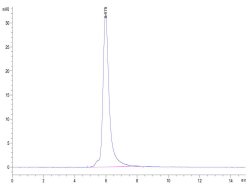
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

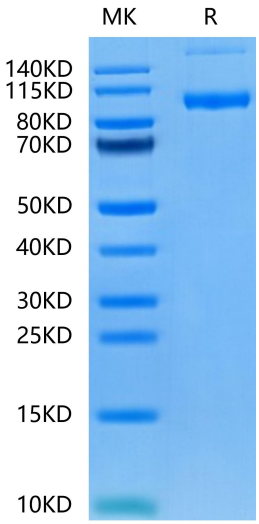
Validation Data



Immobilized Human PSMA, His Tag at 2 μg/mL (100 μL/Well) on the plate. Dose response curve for Anti-PSMA Antibody, hFc Tag with the EC_{50} of 7.0ng/mL determined by ELISA (QC Test).



The purity of Human PSMA is greater than 95% as determined by SEC-HPLC.



Recombinant Human PSMA/FOLH1 Protein was determined by Tris-Bis PAGE under reducing conditions.