

Recombinant Human PSMA/FOLH1 Protein

Catalog No.: RP00457 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2346	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; Mgcg

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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.

Bio-Activity

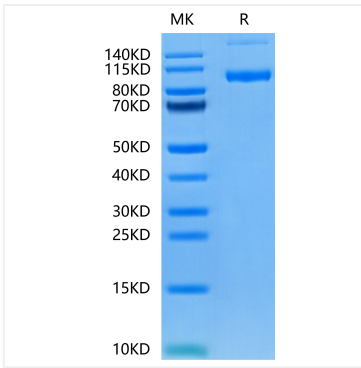
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

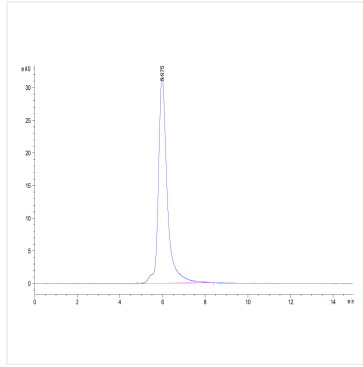
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

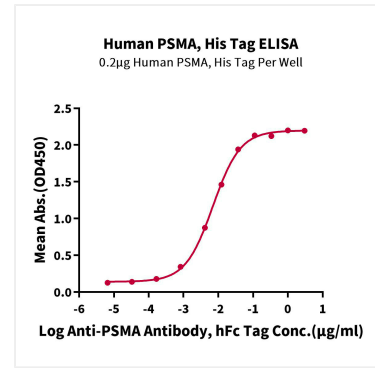
Validation Data



Human PSMA on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



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).