

## PSMA Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	NAALAdase;FOLH1;FOLHNAALADase I;FGCP;mGCP;PSMAFGCP;NAALADase I;GCPIImGCP;Folate hydrolase 1;FOLH;NAALAD1;GCPII;PSM;GIG27;PSMA;GCP2
Protein Construction:	Lys44-Ala750
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q04609-1
Molecular Weight:	106.8 kDa (predicted). Due to glycosylation, the protein migrates to 110-120 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Human PSMA, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-PSMA Antibody, hFc Tag with the EC50 of 16.3ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

### Reference

Song C, et al. Antitumor Activity of MEDI3726 (ADCT-401), a Pyrrolobenzodiazepine Antibody-drug Conjugate Targeting PSMA, in Pre-clinical Models of Prostate Cancer[J]. Molecular Cancer Therapeutics, 2018:molcanther.0982.2017-.

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