Human PSMA/FOLH1 Protein (active dimer), Ultra Low Endotoxin

Cat. No. PSM-HM210-UL

Description

Source	Recombinant Human PSMA/FOLH1 Protein is expressed from HEK293 with hFc (IgG1) tag at the N-Terminus.
	It contains Lys44-Ala750.
Accession	Q04609-1
Molecular Weight	The protein has a predicted MW of 106.8 kDa. Due to glycosylation, the protein migrates to 120-150 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

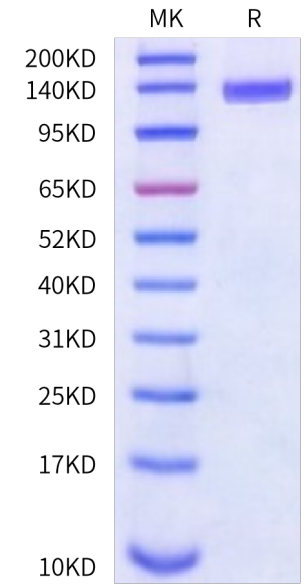
Formulation	Lyophilized from 0.22μm filtered solution in 50mM MES, 150mM NaCl, 8% trehalose (pH 6.0).
Reconstitution	Dissolve the lyophilized protein in 50mM MES, 150mM NaCl (pH 6.0). Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

Assay Data

Bis-Tris PAGE



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

SEC-HPLC

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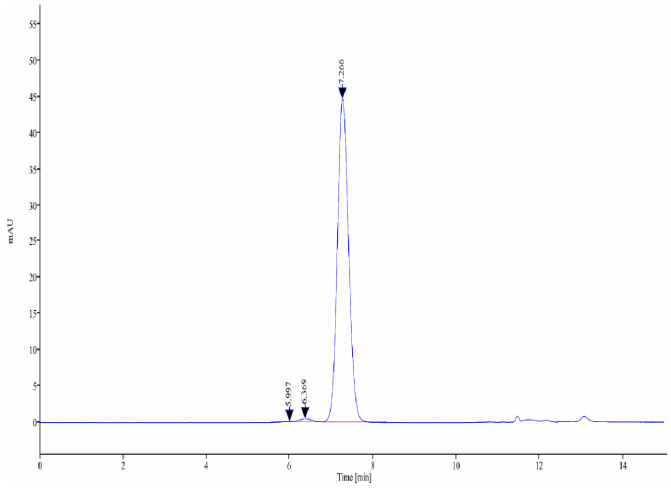
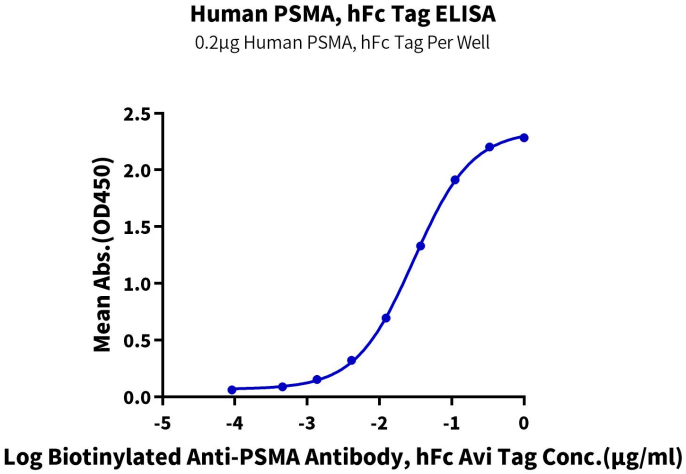
Assay Data



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

ELISA Data



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 29.9ng/ml determined by ELISA.

Bioactivity Data

Measured by its ability to hydrolyze the substrate N-acetyl-L-Asp-L-Glu into N-acetyl-L-Asp and L-Glu. The L-Glu product is measured by fluorescence after its derivatization by ortho-phthaldialdehyde. The specific activity is >500 pmol/min/μg.