

PSMA Dimer Protein, Rat, Recombinant (His)

General Information

Protein Construction: Lys45-Asp752

Species: Rat

Expression Host: HEK293 Cells

Accession: P70627-1

Molecular Weight: 80.62 kDa (Predicted); 90-110 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.

Purity: > 90% as determined by Bis-Tris PAGE; > 95% as determined by HPLC

Endotoxin: < 0.1 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from 0.22 μm filtered solution in 50 mM MES, 150 mM NaCl, 8% trehalose (pH 6.0).

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 50 mM MES (pH 6.0). 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.

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