



Recombinant Protein Technical Manual

Recombinant Human PSMA Protein (His Tag)

RPES2491

Product Data:

Product SKU: RPES2491

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q04609

Protein Information:

Molecular Mass: 80.6 kDa

AP Molecular Mass: 110 kDa

Tag: N-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mMMES, 150mMNacl, 5% Trehalose, pH5.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Glutamate carboxypeptidase 2; FGCP; GCPII; mGCP; NAALADase I; PSMA; Cell growth-inhibiting gene 27 protein; Folate hydrolase 1; FOLH1; GCP2; FGCP; GCPII; Mgcpc; NAALADase I;FOLH;mGCP;NAALAD1;NAALADase;PSM;PSMA

Immunogen Information:

Sequence: Lys44-Ala750

Background:

Glutamate carboxypeptidase 2, also known as FOLH1, PSMA, belongs to the M28B subfamily and the peptidase M28 family. It is highly expressed in prostate epithelium and can be detected in urinary bladder, kidney, testis, ovary, fallopian tube, breast, adrenal gland, liver, esophagus, stomach, small intestine, colon and brain (at protein level). PSMA is used as a diagnostic and prognostic indicator of prostate cancer, and as a possible marker for various neurological disorders such as schizophrenia, Alzheimer disease and Huntington disease. It has both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activity and has a preference for tri-alpha-glutamate peptides. PSMA involves in prostate tumor progression and also exhibits a dipeptidyl-peptidase IV type activity. In vitro, PSMA cleaves Gly-Pro-AMC. PSMA is stable at pH greater than 6.5.