Recombinant Human PSMA Protein(Fc Tag)

Catalog Number: PDMH100295

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

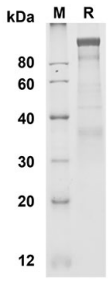
Description

Species	Human
Source	Mammalian-derived Human PSMA protein Lys44-Ala750,with C-terminal Fc
Mol_Mass	102.6 kDa
Accession	Q04609
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human PSMA proteins , 2μg/lane of Recombinant Human PSMAL proteins was resolved with SDS-PAGE under reducing conditions , showing bands at 100-110 KD

Background

Glutamate carboxypeptidase 2 , also known as Glutamate carboxypeptidase II , Membrane glutamate carboxypeptidase , Prostate-specific membrane antigen , GCPII , PSMA , FOLH1 , and NAALAD1 , is a single-pass type II membrane protein which belongs to thepeptidase M28 family and M28B subfamily. FOLH1 is highly expressed in prostate epithelium. It is detected in urinary bladder , kidney , testis , ovary , fallopian tube , breast , adrenal gland , liver , esophagus , stomach , small intestine , colon , brain (at protein level) , and the capillary endothelium of a variety of tumors. FOLH1 has both folate hydrolase and N-acetylated alpha linked acidic dipeptidase (NAALADase) activity. It has a preference for tri-alph a-glutamate peptides. Genetic variation in FOLH1 may be associated with low folate levels and consequent hyperhomocysteinemia. This condition can result in increased risk of cardiovascular disease , neural tube defects , and cognitive deficits. FOLH1 also shows a promising role in directed imaging and therapy of recurrent or metastatic disease.

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