

Recombinant Human PSA/KLK3 Protein (His Tag)

Catalog No. PKSH031436

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

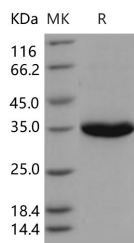
Description

Synonyms	APS;Hk3;KLK2A1;PSA;Prostate-Specific Antigen;PSA;Gamma-Seminoprotein;Seminin;Kallikrein-3;P-30 Antigen;Semenogelase;
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Pro 261
Accession	P07288
Calculated Molecular Weight	28.3 kDa
Observed molecular weight	35 kDa
Tag	C-His
Bioactivity	Measured by its ability to cleave the colorimetric peptide substrate, Succinyl-Arg-Pro-Tyr-p-Nitroanilide(Suc-RPY-pNA). The specific activity is > 100 pmoles/min/μg. (Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

For Research Use Only

Background

KLK3(Kallikrein 3); also known as Prostate Specific Antigen (PSA); kallikrein-related peptidase 3; Gamma-seminoprotein; is a secreted protein of the glandular kallikrein subfamily of serine proteases. KLK3 contains one peptidase S1 domain. KLK3 is a glycoprotein produced almost exclusively by the prostate gland. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers.

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