



Recombinant Protein Technical Manual

Recombinant Human PSA/KLK3 Protein (His Tag)(Active) RPES0983

Product Data:

Product SKU: RPES0983

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: P07288

Protein Information:

Molecular Mass: 28.3 kDa

AP Molecular Mass: 35 kDa

Tag: C-His

Bio-activity: 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)

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

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

Storage: 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

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

Application:

Synonyms: APS;Hk3;KLK2A1;PSA;Prostate-Specific Antigen; PSA; Gamma-Seminoprotein; Semin; Kallikrein-3; P-30 Antigen; Semenogelase;

Immunogen Information:

Sequence: Met 1-Pro 261

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.