

Recombinant Human Prostate Specific Gene-1 His

Catalog No.	CRP153A	Quantity:	2 µg
	CRP153B		10 µg
	CRP153C		1.0 mg

Alternate Names: Human Prostate-Specific Gene-1, HPG-1, HPG1.

Description: Human Prostate-Specific Gene-1 (HPG-1) product is a recently discovered membrane-anchored protein of approximately 15 kD. It was detected exclusively in the prostate (19 different tissues were tested).

Antisense-oligonucleotide inhibition of HPG-1 expression inhibited the growth of one prostate cancer cell line (LNCaP) significantly (86%). HPG-1 might be a novel diagnostic and/or therapeutic target.

Recombinant HPG-1 is a 16 kDa recombinant fusion protein consisting of 127 aa residues of Human PG-1 and 9 additional aa residues of the His tag.

Source: *E. coli*

Molecular Weight: 16 kDa

Formulation: Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M MES buffer, pH 6.5.

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

Specificity: The aa sequence of the recombinant HPG-1 is 100% homologous to the amino acid sequence of the native HPG-1.

Purification Method: Ni-NTA affinity chromatography.

Amino Acid Sequence: MKHHHHHHHM IKKNLKKLGI EETYLNIKA IYDRPTASIQ KTENLSTKGT
TSQEYHLSPL WFYIVLEILA STIRQEKNLK DIHTEKEEVK LSLFADAMIL YLKKPNDSTR
KLELIKKIH SSCRIKINIH FAFCSQ.

Reconstitution: Reconstitute lyophilized pellet by adding 0.2 ml of distilled water and allowing the protein to completely dissolve. To raise the pH to a higher value, dilute solution to a concentration of 10 µg/ml with an appropriate buffer. At higher concentrations, the solubility of this protein is limited.

Storage & Stability: Store lyophilized protein at -20°C. After reconstitution, aliquot the product and freeze at -20°C to -80°C. Reconstituted protein can be stored at 2-4°C for a limited period of time. The lyophilized protein remains stable until the expiration date when stored at -20°C. **Avoid repeated freeze-thaw cycles.**

Applications: Western blotting, ELISA.

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