

Recombinant Human Prostate Specific Gene-1

Cat. No. PG-54H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HPG-1 is a 16 kDa recombinant fusion protein consisting of 127 amino acid residues of the human Prostate-Specific Gene-1 (HPG-1) and 10 additional amino acid residues of the His-Tag (underlined). MKHHHHHHHMIKKNLKKLGIEETYLNIIKAIYDRPTASIQKTENLSTKTGTSQEYHLSPLWFIYIVLEILASTIRQEKNL LSLFADAMILYLKKPNDSTR KLLELIKKIHSSCRIKINIH FAFCSQ
Species	Human
Source	E.coli
Description	Human Prostate-Specific Gene-1 (HPG-1) product is a recently discovered membrane-anchored protein of approximately 16 kDa. 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 potential and/or therapeutic target.
Purity	>95% (SDS-PAGE analyzed).
Formulation	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05 M MES buffer pH6.5
Reconstitution	Add 0.2 ml of dH ₂ O and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this protein is low.
Specificity	The amino acid sequence of the recombinant HPG-1 is 100% homologous to the amino acid sequence of the human Prostate-Specific Gene-1.
Purification Method	Ni-NTA affinity chromatography

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Applications	Western blotting, ELISA
Storage	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

GENE INFORMATION

Synonyms	HPG-1; Prostate Specific Gene-1; PG.
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