Prostate-Specific Gene-1 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: HPG-1

Cat. No.:
RD172061100 (0.1 mg)

Description

Total 136 AA. MW: 16 kDa (calculated). N-Terminal His-tag 9 AA (highlighted).

Introduction to the Molecule

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-oligonicleotide 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.

Research topic

Oncology

Amino Acid Sequence

MKHHHHHHHM IKKNLKKLGI EETYLNIIKA IYDRPTASIQ KTENLSTKTG TSQEYHLSPL WFYIVLEILA STIRQEKNLK DIHTEKEEVK LSLFADAMIL YLKKPNDSTR KLLELIKKIH SSCRIKINIH FAFCSQ

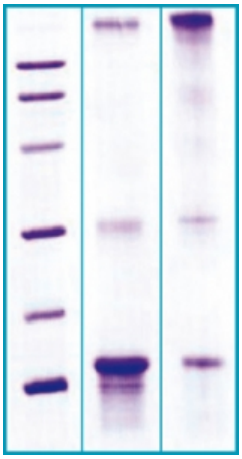
Source

E. coli

Purity

>95%

SDS-PAGE gel



12% SDS-PAGE separation of Human HPG-1
1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 5µg/lane
3. non-reduced and non-heated sample, 5µg/lane

Formulation

Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M MES buffer pH6.5

Reconstitution

Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. This product typically requires **20min at 37°C**for complete reconstitution. 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 antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

Applications

Western blotting

Note

This product is intended for research use only.

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