Cysteine-Rich Secretory Protein 3 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: CRISP-3, Specific Granule Protein (28 KDa), CRS3, SGP28, Aeg2

Cat. No.:
RD172262100 (0.1 mg)

Description

Recombinant protein contains amino acids no. 21-245 of the protein acc.no. P54108 in UniProtKB. Total 235 AA. MW: 26.74 kDa (calculated). N-Terminal His-tag (10 extra AA)

Introduction to the Molecule

Cysteine-rich secretory protein 3 (CRISP-3, SGP 28) belongs to the CRISP family of proteins having a PR-1 (pathogenesis related protein 1) domain at its N-terminal and ion channel regulatory (ICR) domain at its C-terminal connected by a hinge region. CRISP-3 transcripts are shown to be present predominantly in the prostate. Its expression is low in benign prostatic epithelium but is highly upregulated in the majority of high-grade prostatic intraepithelial neoplasia lesions and in most primary prostate tumours and metastases. Two independent studies have shown that CRISP-3 is one of the genes that are most often upregulated in prostate cancer. Human Prostate Secretory Protein (PSP94) has been shown to bind human CRISP-3 with very high affinity. Functional significance of this complex is not yet known. Yet, it was suggested, that involvement of the hinge region of CRISPs in interaction with PSP94 may affect the domain movement of CRISPs essential for the ion-channel regulatory activity resulting in inhibition of this activity.

Research topic

Oncology, Reproduction

Amino Acid Sequence

MKHHHHHHAS NEDKDPAFTA LLTTQTQVQR EIVNKHNELR RAVSPPARNM LKMEWNKEAA ANAQKWANQC NYRHSNPKDR
MTSLKCGENL YMSSASSSWS QAIQSWFDEY NDFDFGVGPK TPNAVVGHYT QVVWYSSYLV GCGNAYCPNQ KVLKYYYVCQ
YCPAGNWANR LYVPYEQGAP CASCPDNCDD GLCTNGCKYE DLYSNCKSLK LTLTCKHQLV RDSCKASCNC SNSIY

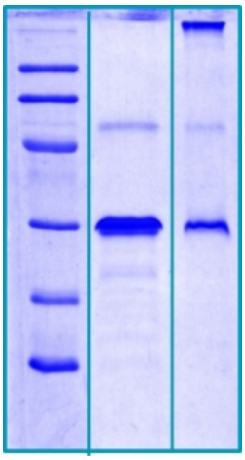
Source

E. coli

Purity

Purity as determined by densitometric image analysis: > 85%

SDS-PAGE gel



14 % SDS-PAGE separation of Human Cysteine-rich secretory protein 3:

1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa

2. reduced and boiled sample, 2.5 µg/lane

3. non-reduced and non-boiled sample, 2.5 µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

0.3 - 0.5 mg/ml in 50 mM acetate buffer, pH 4, 5mM DTT 20%glycerol. - filtered (0.4 µm), frozen

Reconstitution

Defrost at ambient temperature. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping

On ice. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store protein at -80°C. Protein remains stable until the expiry date when stored at -80°C. Avoid repeated freezing/thawing cycles. The thawed protein can be stored at 4 °C for four days.

Quality Control Test

Bradford protein assay to determine quantity of the protein.
SDS-PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

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