WAP four-disulfide core domain protein 2 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Epididymal secretory protein E4, Major epididymis-specific protein E4, Putative protease inhibitor WAP5, WFDC2, HE4, WAP5, Epididymis protein 4, Whey-acidic-protein

Cat. No.:
RD172369100 (0.1 mg)

Description

Total 104 AA. MW: 11.3 kDa (calculated). UniProtKB acc.no. Q14508 (Glu31-Phe124). N-terminal 10 extra AA. Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

WAP four-disulfide core domain protein 2 is a protease inhibitor. It is effective with a broad range of proteases, e.g. aspartic, serine or thiol proteases.

Research topic

Oncology

Amino Acid Sequence

MKHHHHHHAS EKTGVCPELQ ADQNCTQECV SDSECADNLK CCSAGCATFC SLPNDKEGSC PQVNINFPQL GLCRDQCQVD SQCPGQMKCC RNGCGKVSCV TPNF

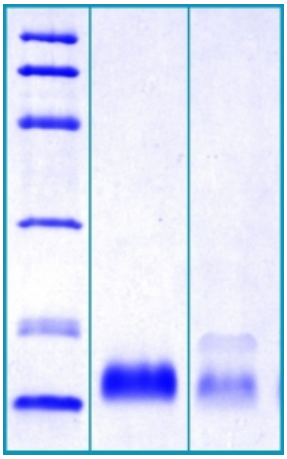
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >95%

SDS-PAGE gel



14 % SDS-PAGE separation of Human HE4:

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

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in PBS buffer, pH 7.5, 4%mannitol, 1%sucrose

Reconstitution

Add 200 µl of deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping

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

Storage, Stability/Shelf Life

Store the lyophilized protein at -80 °C. Lyophilized protein remains stable until the expiry date when stored at -80 °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 week.

Quality Control Test

BCA 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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