Granulysin Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Lymphokine LAG-2, T-cell activation protein 519, GNLY, LAG2, NKG5, TLA519

Cat. No.:
RD172327100 (0.1 mg)

Description

Total 133 AA. MW: 15.33 kDa (calculated). UniProtKB acc.no. P22749 (Arg23-Leu145). N-Terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

Granulysin is an antimicrobial protein active against Gram-positive and Gram-negative bacteria, fungi and parasites, including Mycobacterium turberculosis. Granulysin is expressed in natural killer cells and T-cells. It is located in the cytotoxic granules of T-cells, which are released upon antigen stimulation. A 9 kDa form is produced by proteolytic processing of a 15 kDa protein.

Research topic

Immune Response, Infection and Inflammation, Oncology, Transplantation

Amino Acid Sequence

MKHHHHHHAS RLSPEYYDLA RAHLRDEEKS CPCLAQEGPQ GDLLTKTQEL GRDYRTCLTI VQKLKKMVDK PTQRSVSNAA TRVCRTGRSR WRDVCRNFMR RYQSRVTQGL VAGETAQQIC EDLRLCIPST GPL

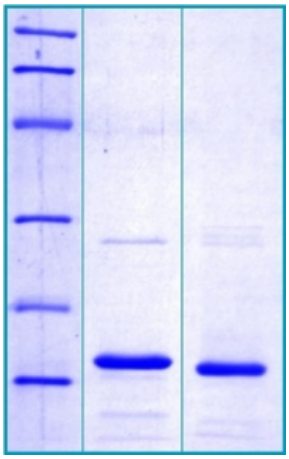
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >95%

SDS-PAGE gel



14% SDS-PAGE separation of Hu Granulysin:
1. M.W. marker - 97, 66, 45, 31, 21, 14 kDa
2. reduced and heated sample, 2.5µg/lane
3. non-reduced and non-heated sample, 2.5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4

Reconstitution

Add 200ul of deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. 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 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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