

PRODUCT DATASHEET

Interleukin-6 Human E. coli

Cat. No.: RD172015100

Type: Recombinant protein

Size: 0.1 mg

Source: E. coli

Species: Human

Description

Total 193 AA. MW: 22.05 kDa (calculated). UniProtKB acc.no. P05231. N-Terminal His-tag, 10 extra AA (highlighted).

Other names

IL-6, Interferon-beta 2, B-cell stimulatory factor 2, HGF

Introduction to the molecule

Interleukin-6 is a multi-functional cytokine that regulates immune responses, acute phase reactions and hematopoiesis, and it may play a central role in host defense mechanisms. IL-6 is usually not produced constitutively by normal cells, but its expression is readily induced by a variety of cytokines, lipopolysaccharide or viral infections.

Research topic

Animal studies, Cytokines and chemokines and related molecules, Energy metabolism and body weight regulation, Sepsis

Amino Acid sequence

MKHHHHHHAS VPPGEDSKDV AAPHRQPLTS SERIDKQIRY ILDGISALRK ETCNKSNMCE SSKEALAENN LNLPKMAEKD GCFQSGFNEE
TCLVKIITGL LEFEVYLEYL QNRFESSEEQ ARAVQMSTKV LIQFLQKKAK NLDAITTPDP TTNASLLTKL QAQNQWLQDM TTHLILRSFK
EFLQSSLRAL RQM

Endotoxin

< 0.1 EU/μg

Formulation:

Filtered (0.4 μm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5

Reconstitution:

Add 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

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

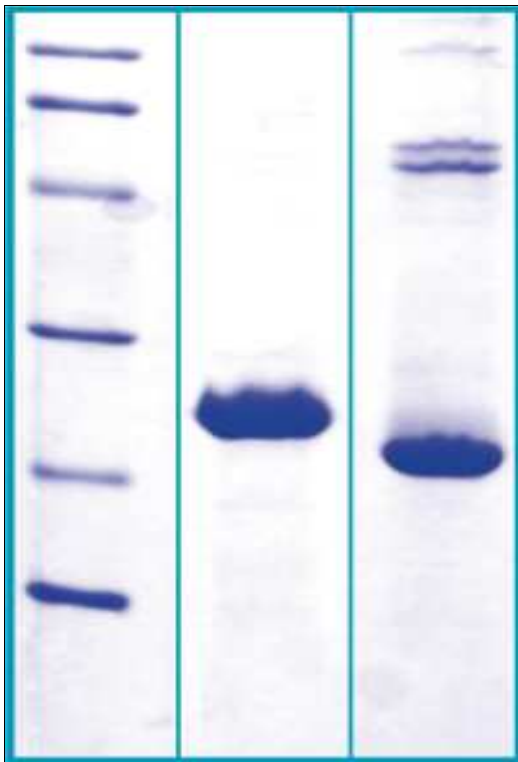
LAL to determine quantity of endotoxin.

Applications

Western blotting

Note

This product is intended for research use only.



14% SDS-PAGE separation of Human Interleukin-6

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