

Product name

Human interleukin-6 (IL-6 Human)

Species

Human

Host Species/Expression System

E.coli

Description

IL-6 is a cytokine with a wide variety of biological functions: it plays an essential role in the final differentiation of b-cells into ig-secreting cells, it induces myeloma and plasmacytoma growth, it induces nerve cells differentiation, in hepatocytes it induces acute phase reactants.

Amino acid sequence:

PVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNKSNMCESSK
EALAENNLNLPKMAEKDGCFSQSGFNEETCLVKIITGLLEFEVYLEYLQNRFS
SEEQARAVQMSTKVLIQFLQKAKNLDAITTPDPTTNASLLTKLQAQNQWLQ
DMTTHLILRSFKEFLQSSLRALRQM

Molecular weight

21 kDa

Purity

≥ 95 % by SDS-PAGE analysis

Format

Lyophilized protein

Biological Activity :

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 for this effect is 0.2 - 0.8 ng/ml.

Endotoxin : Less than 1.0 EU/μg of Fibronectin as determined by LAL method.

Formulation

Phosphate buffered saline pH 7.4.

Reconstitution : We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile PBS buffer. Stock solutions should be apportioned into working aliquots and store at ≤ -20°C. Future dilutions

should be made in appropriate buffered solution.

Storage condition :

Store the lyophilized protein at -20°C to -80°C for lone term. After reconstitution, the protein solution is stable at -20°C for 3 month, at $2-8^{\circ}\text{C}$ for up to 1 week. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. **Avoid repeated freeze/thaw cycles.**