

BACKGROUND:

Interleukin 6 (IL-6) is an important pro-inflammatory and anti-inflammatory cytokine expressed by T cells, macrophages and muscle cells. IL-6 signals through a receptor complex containing two receptors, IL-6R α and gp130. IL-6 has an important function in promoting fever and can serve to stimulate an immune response to trauma. IL-6 is often used for growth of hybridoma cell lines. Human IL-6 is active on mouse and rat cells.

Recombinant human IL-6 is a non-glycosylated protein, containing 184 amino acids and having a molecular weight of 21 kDa.

Cat. No.:
RP1010AF

Alternate Names:

IFN- β 2, B-cell Differentiation Factor, BSF-2, HSF, MGI-2

AA Sequence:

MPVPPGEDSK	DVAAPHRQPL	TSSERIDKQI
RYILDGISAL	RKETCNKSNM	CESSKEALAE
NNLNLPKMAE	KDGCFQSGFN	EETCLVKIIT
GLLEFEVYLE	YLQNRFESSE	EQARAVQMST
KVLIQFLQKK	AKNLDAITTP	DPTTNASLLT
KLQAQNQLWQ	DMTTHLILRS	FKEFLQSSLR
	ALRQM	

TECHNICAL INFO**Source:**

E. coli

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

0.1% Trifluoroacetic Acid (TFA)

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product at 0.1 mg/ml in sterile 10 mM HCl, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is measured by dose-dependent 7TD1 cell proliferation, with Bioactivity Acceptance Criteria ED50 at 250 pg/mL.

Animal Component-Free

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

