

DATASHEET
Version 20181206**IL-6, Rat (HEK 293-expressed)****Cat. No.:** Z03041-25**Size:** 25.0 ug**Synonyms:** 26 kDa protein, IFN-beta2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2**Description:**

Interleukin-6 (IL-6) is a pleiotropic cytokine that plays an important role in host defense by regulating immune and inflammatory responses. Produced by T cells, monocytes, fibroblasts, endothelial cells and keratinocytes, Interleukin-6 (IL-6) has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL-3 in megakaryocyte development and platelet production, induces expression of hepatic acute-phase proteins, and regulates bone metabolism. Interleukin-6 (IL-6) signals through the IL-6 receptor system that consists of two chains, IL-6R alpha and gp130.

Amino Acid Sequence:

```
00001 FPTSQVRRGD FTEDTTHNRP VYTTSQVGGL ITYVLREILE
00041 MRKELCNGNS DCMNSDDALS ENNLKLEIQ RNDGCFQTGY
00081 NQEICLLKIC SGLLEFRFYL EFVKNNLQDN KKDKARVIQS
00121 NTETLVHIFK QEIKDSYKIV LPTPTSNALL MEKLESQKEW
00161 LRTKTIQLIL KALEEFLKVT MRSTRQT
```

Source: HEK 293**Species:** Rat**Biological Activity:** ED₅₀ < 3 pg/ml, measured by a cell proliferation assay using 7TD1 Cells.**Molecular Weight:** 21 26 kDa , observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Rat Interleukin-6(IL-6) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, it should be stable up to 1 week at 4°C or up to 2 months at -20°C.