

32-20348: Animal-Free Recombinant Murine IL-6(Discontinued)

Reactivity : Monkey, Mouse

Alternative Name : 26 kDa protein, IFN-Beta2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2

Description

Source: *E.coli* IL-6 is a pleiotropic cytokine that plays an important role in host defense by regulating immune and inflammatory responses. It is produced by T cells, monocytes, fibroblasts, endothelial cells and keratinocytes, 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. IL-6 signals through the IL-6 receptor system that consists of two chains, IL-6R α and gp130. Murine IL-6 is inactive on human cells, while both human and murine are equally active on murine cells. Recombinant Murine IL-6 is a 21.7 kDa protein containing 188 amino acid residues.

Product Info

Amount : 2 μ g / 10 μ g

Purification : Purity: \geq 98% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN SDCMNNDDAL AENNLKLPEI
QRNDGCYQTG YNQEICLLKI SSSLLEYHSY LEYMKNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLHKI
VLPTPISNAL LTKLESQKE WLRTKTIQFI LKSLEEFKLV TLRSTRQT

Application Note

Determined by its ability to stimulate the proliferation of mouse 7TD1 cells. The expected ED_{50} is \leq 0.02 ng/ml, corresponding to a specific activity of $\geq 5 \times 10^7$ units/mg.