

IL-6/IFN-β2/BSF-2/HPGF/HSF, Mouse, Recombinant

Cat. No. : PCK262

General Information

Synonyms	IFN-β2;B-Cell Differentiation Factor (BCDF);BSF-2;HPGF;HSF;MGI-2
Species	Mouse
Expression host	E.coli
Sequence	MFPTSQVRRGDFTEDTTPNRPVYTTTSQVGGILITHVLWEIVEMRKELCNGNSDCMNNDDALAE NNLKLPEIQRNDGCYQTGYNQEI CLLKISSGLLEYHSYLEYMKNNLKD NKDKARVLQRDTETL IHIFNQEVKDLHKIVLPTPISNALLTDKLESQKEWLRTKTIQFILKSLEEF LKVTLRSTRQT with polyhistidine tag at the C-terminus.
Accession	P08505.1
Tag	His-tag at the C-terminus
Mol mass	22.7 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce proliferation in 7TD1 cells. The ED50 for this effect is < 0.01 ng/mL. The specific activity of recombinant mouse IL-6 is approximately > 1 × 10 ⁸ IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin 6 (IL-6) is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine. In humans, it is encoded by the IL6 gene. In addition, osteoblasts secrete IL-6 to stimulate osteoclast formation. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6 as a pro-inflammatory cytokine. IL-6's role as an anti-inflammatory myokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1ra and IL-10.