

Recombinant Equine Interleukin 6 (req IL-6)

Synonyms: B cell differentiation factor (BCDF), HSF, MGI-2, B-cell stimulatory factor 2 (BSF-2), Hybridoma growth factor (HPGF), CTL differentiation factor (CDF)

Introduction: IL-6 is a pleiotropic cytokine that plays important roles in acute phase reaction, antigen specific immune responses and hematopoiesis. Main sources of Interleukin-6 are monocytes, T-cells, fibroblasts and endothelial cells. IL-6 is a major mediator of acute phase reaction, it functions as B-cell differentiation factor (BCDF) and induces the proliferation of thymocytes. Moreover it has neurotrophic activity on certain neuronal cell types. IL-6 is also known to act as autocrine growth modulator of some tumor types.

Description: Recombinant equine IL-6 produced in *E.Coli* is a variably glycosylated polypeptide chain containing 185 amino acids with alpha-helical structure and having a molecular mass of 21 kDa. The req IL-6 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilised from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate pH 7.0 containing 0.2 M NaCl

Solubility: It is recommended to reconstitute the lyophilized req IL-6 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized req IL-6 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution req IL-6 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence:

MTPLPLGEDETTSSNGPLLTTADKTKQHIIKYLKISALKNEMCENNFSKENSKEVLAENNLNLPKMAEKDGCFFQS
GFNQETCLMKITTTGLSEFQIYLEYLQNEFKGEKENIKTMQISTKVLVQILMQMKMNPEVTTTPDPTAKSSLLAKLHS
QNEWLKNTTTHLILRSLEDLQFSLRAVRIM

Biological Activity: biologically active

Endotoxicity: The endotoxin level is less than 1ng /µg (IEU/µg) determined by LAL method

This material is offered for **research use only**. Not for use in human. For *in vitro* use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	18340062
<i>medium</i>	10 µg	Cat.N°	18340063
<i>large</i>	50 µg	Cat.N°	18340065

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