

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:

MTPLPLGEDETTSSNGPLLTTADKTKQHICYILGKISALKNEMCNNFSKSENSKEVLAENNLNLPKMAEKDGCFFQS
GFNQETCLMKITTTGLSEFQIYLEYLQNEFKGEKENIKTMQISTKVLVQILMQKMKNPVTTTPDPTAKSSLLAKLHS
QNEWLKNNTTTHLILRSLEDLQFSLRAVRIM

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 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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