

## Recombinant Human Interleukin 6 Biotin conjugate (rh IL-6 Biotin)

**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.

**Source:** *Escherichia Coli*

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

**Formulation:** 0.22 µm filtered solution in 25 mM sodium phosphate, 200 mM NaCl, pH 7.5, lyophilised

**Solubility:** Vial should be centrifuged before opening! Reconstitute in sterile endotoxin free water to a concentration not less than 100 µg/ml.

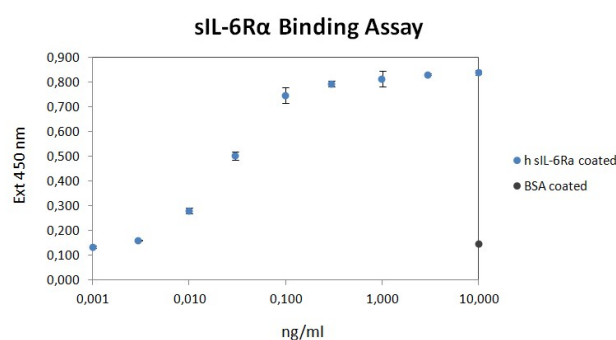
**Stability:** Lyophilized rh IL-6 Biotin although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh IL-6 Biotin should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein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

**Purity:** 95% (verified by SDS-PAGE / silver stain)

**Endotoxicity:** The endotoxin level is less than 1 EU/µg determined by LAL method.

**Amino acid sequence:** MPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGIALR  
KETCNKSNMCESSKEALAENLNLPKMAEKDGCFSQGFN EETCLVKIITGLLEFEVYLEYLQNRFEESSEEQARAVQMSTK  
VLIQFLQKKAKNLDAITTPDPTTNASLLTKLQAQNQWLQD MTTHLILRSFKEFLQSSLRALRQM

**Biological Activity:** Measured by functional ELISA: rh IL-6-BIOTIN binds to rh sIL-6Rα (1 µg/ml) coated on ELISA plate. Half maximum binding signal is produced at a concentration of < 30 ng/ml



|               |       |        |           |
|---------------|-------|--------|-----------|
| <i>small</i>  | 2 µg  | Cat.N° | 1134B0062 |
| <i>medium</i> | 10 µg | Cat.N° | 1134B0063 |
| <i>large</i>  | 50 µg | Cat.N° | 1134B0065 |

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