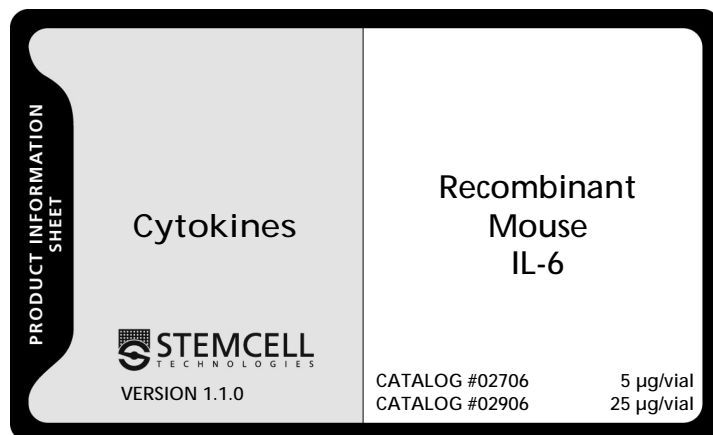


## PRODUCT DESCRIPTION

Interleukin 6 is a multifunctional cytokine that plays an important role in host defense, acute phase reactions, immune responses and hematopoiesis. IL-6 is expressed by a variety of cell types including T cells, B cells, monocytes/macrophages, fibroblasts, hepatocytes, vascular endothelial cells and various tumor cell lines. IL-6 exerts biological effects on B cells, T cells, hepatocytes and myeloid hematopoietic progenitors.

The methionyl form of recombinant mouse IL-6 contains 188 amino acid residues with a predicted molecular mass of approximately a 21.8 kDa.



## SOURCE

A DNA sequence encoding the mature mouse IL-6 protein was expressed in *E. coli*.

## PURITY

Purity is greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is <1.0 EU per 1 µg cytokine, as determined by the LAL method.

## ACTIVITY

The biological activity of recombinant mouse IL-6 is measured in a cell proliferation assay using a mouse factor-dependent plasmacytoma cell line, T1165.<sup>1</sup> The ED<sub>50</sub> for this effect is typically 0.02 - 0.06 ng/mL.

## FORMULATION

Recombinant mouse IL-6 is lyophilized from a 0.2 µm filtered solution in 50 mM sodium acetate, 1 mM EDTA and 5% trehalose, pH 4.0 containing 50 µg bovine serum albumin per 1 µg cytokine.

## RECONSTITUTION

Reconstitute mouse IL-6 at a concentration greater than 10 µg/mL with sterile phosphate buffered saline (PBS) containing at least 0.1% human or bovine serum albumin.

## STABILITY AND STORAGE

Lyophilized mouse IL-6 is stable for up to twelve months from date of receipt at -20°C to -70°C.

Reconstituted mouse IL-6 can be stored under sterile conditions at 2°C - 8°C for one month, or at -20°C to -70°C (in a manual defrost freezer) for three months without detectable loss of activity.

**Avoid repeated freezing and thawing.**

## REFERENCES

1. Nordan RP, Pumphrey JG, Rudikoff S: Purification and NH<sub>2</sub>-terminal sequence of a plasmacytoma growth factor derived from the murine macrophage cell line P388D1. *J Immunol* 139: 813-817, 1987

