

## PRODUCT DESCRIPTION

Interleukin 3 (IL-3) is a pleiotropic cytokine produced primarily by activated T cells that can stimulate the proliferation and differentiation of hematopoietic stem cells and various lineage-committed progenitors.

The methionyl form of recombinant mouse IL-3 contains 135 amino acids and has a molecular mass of approximately 15 kDa.

## SOURCE

A DNA sequence encoding the mature mouse IL-3 protein (Asp 33 - Cys 166; Accession #NP\_034686) 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-3 is measured in a cell proliferation assay using a factor-dependent mouse myeloblastic cell line, NFS-60.<sup>1</sup> The ED<sub>50</sub> for this effect is typically 20 - 100 µg/mL.

## FORMULATION

Recombinant mouse IL-3 is lyophilized from a 0.2 µm filtered solution in phosphate buffered saline (PBS) containing 50 µg bovine serum albumin per 1 µg cytokine.

## RECONSTITUTION

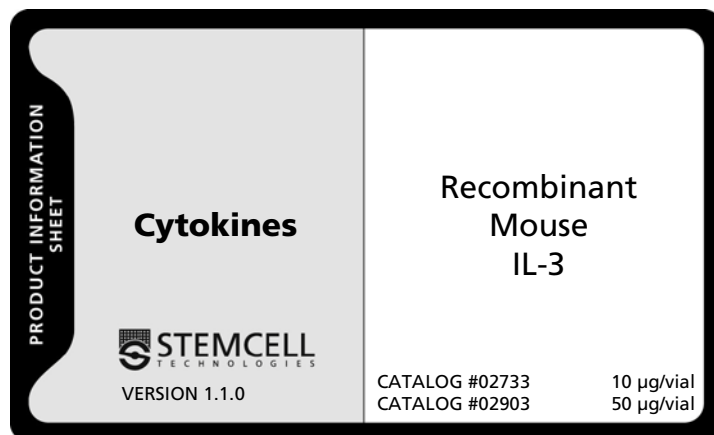
Reconstitute mouse IL-3 at a concentration greater than 10 µg/mL with sterile PBS containing at least 0.1% human or bovine serum albumin.

## STABILITY AND STORAGE

Lyophilized mouse IL-3 is stable for up to twelve months from date of receipt at -20°C to -70°C.

Reconstituted mouse IL-3 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. Holmes KL, Palaszynski E, Fredrickson TN, Morse HC 3rd, Ihle JN: Correlation of cell-surface phenotype with the establishment of interleukin 3-dependent cell lines from wild-mouse murine leukemia virus-induced neoplasms. Proc Natl Acad Sci USA 82: 6687-6691, 1985