



Rat IL-4

2 µg
10 µg

130-094-091
130-094-122

Description:

Rat interleukin 4 (IL-4) is a potent lymphoid factor which stimulates the growth and survivability of certain B cells and T cells. Rat IL-4 is a 14.1 kDa protein containing 126 amino acid residues.

Source:	<i>E. coli</i>
Molecular mass:	14.1 kDa
Specific activity:	≥5×10 ⁵ U/mg
Endotoxin level:	<0.1 ng/µg (1 EU/µg)
Purity:	>98% (SDS-PAGE, HPLC)
Buffer:	None
Stabilizer:	None
Product format:	Sterile filtered, lyophilized

Biological activity:

The ED₅₀ of ≤2 ng/mL was determined by dose-dependent stimulation of the proliferation of Con-A activated rat spleen cells. It corresponds to a specific activity of ≥5×10⁵ U/mg.

Reconstitution:

We recommend a quick spin followed by reconstitution in deionized sterile-filtered water to a concentration not less than 100 µg/mL. This solution can then be diluted into other aqueous buffers and stored at 4 °C for one week or -20 °C for future use. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Storage:

The lyophilized protein is stable at room temperature for a few weeks, but best stored at -20 °C. Reconstituted Rat IL-4 should be stored in working aliquots at -20 °C. Avoid repeated freeze-thaw cycles.

All protocols and data sheets are available at www.miltenyibiotec.com.

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