



Human IL-4

Cell culture grade

~5 µg

130-093-918

Description:

Human interleukin 4 (IL-4) is a 15 kDa protein containing 130 amino acid residues. Human IL-4 is a potent lymphoid cell growth factor which stimulates the growth and survivability of certain B and T cell lines.

Source:	<i>E. coli</i>
Molecular weight:	15 kDa
Specific Activity:	≥5×10 ⁶ units/mg
Buffer:	DMEM/F12
Stabilizer:	HSA
Physical state:	Lyophilized

Biological Activity:

The ED₅₀ of <0.2 ng/mL was determined in direct comparison with the WHO standard (88/656, NIBSC) by a cell proliferation assay using a human factor-dependent cell line TF-1 (Kitamura, T. *et al.*, 1989, J. Cell Physiol. 140: 323).

Reconstitution:

The lyophilized Human IL-4 should be reconstituted with 2 mL distilled, sterile water. For further dilution carrier protein should be added to avoid loss of bioactivity.

Stability:

The lyophilized protein is best stored at -20 °C. Reconstituted Human IL-4 should be used immediately or divided into aliquots and stored at -20 °C for future use.

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

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