
Mouse IL-10 Recombinant Protein

Catalog Number: 14-8101

Also Known As: Interleukin-10, IL10

RUO: For Research Use Only

Product Information

Contents: Mouse IL-10 Recombinant Protein

REF **Catalog Number:** 14-8101

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli expressed amino acids ser 19-ser 178 of mature mouse IL-10 (accession # NM_010548) with a cys149tyr substitution (Moore, K. et al., Science 248:1230-1234).


Molecular Mass: The protein does not contain an N-terminal methionine. The polypeptide has a predicted molecular mass of approximately 18,950. The DTT reduced protein migrates as a 19 kDa polypeptide. The nonreduced protein migrates as an 18 kDa protein on non-reducing SDS-PAGE.

Purity: Greater than 98%, as determined by SDS-PAGE

Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Measured by mouse MC/9 cell proliferation assay, costimulated with IL-4. The ED₅₀ is 0.3 ng/ml, corresponding to a specific activity of 3.0 x 10⁶ Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA. 0.22 µm filtered.

 **Temperature Limitation:** Store at less than or equal to -70°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

Mouse IL-10 is an ~18 kDa cytokine, also known as Cytokine Synthesis Inhibitory Factor (CSIF). In the mouse, Th2 cells, B1 cells and keratinocytes are the major cell subsets that produce IL-10. IL-10 inhibits synthesis of Th1 cytokines and proliferation of T cells, and acts as a costimulatory signal for mast cells, developing thymocytes and the Th2 response.

Applications Reported

Recombinant mouse IL-10 is biologically active and can promote proliferation of the MC/9 cell line in culture.

Applications Tested

This recombinant mouse IL-10 has been tested by bioassay using the mouse cell line MC/9. The ED₅₀ measured is typically 300 pg/ml, corresponding to a specific activity of 3.3x10⁶ Units/mg.

Related Products

00-4202 ELISA Diluent Solution (5X)

13-7102 Anti-Mouse IL-10 Biotin (JES5-2A5)

14-7101 Anti-Mouse IL-10 Purified (JES5-16E3)

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

88-7104 Mouse IL-10 ELISA Ready-SET-Go!®

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