

Interleukin-10

Mouse, Recombinant (rmIL10)

Expressed in *E. coli*

Cat. No. CRP0821

Lot. No. (See product label)

PRODUCT INFORMATION

Description: Recombinant Mouse IL-10 produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18885 Dalton.

Background: Interleukin-10 is produced by murine T-cells following their stimulation by lectins. The main source for B-cell-derived Interleukin-10 in mice is Ly-1 B-cells that express CD5 and CD11. Murine keratinocytes also produce IL10.

Amino-Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Arg-Gly-Gln.

M. W. : 18,885 Da

Recombinant: Expressed in *E. coli*

Purity: >98% as determined by RP-HPLC, FPLC and SDS-PAGE .

Formulation: The protein was lyophilized with no additives.

Specific Activity: The ED50 as determined by the dose-dependant co-stimulation with murine IL-4 of MC-9 cells was found to be < 2ng/ml, corresponding to a Specific Activity of 5.0×10^5 IU/mg.

Endotoxin: Less than 0.1 ng/μg (IEU/μg) of mouse IL-10.

Reconstitution: It is recommended to reconstitute the lyophilized mouse IL-10 in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Storage: Lyophilized mouse IL-10 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Murine IL-10 should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freeze-thaw cycles.



[PDB](#) rendering based on 2H24.

GENE INFORMATION

Gene Name: [IL10](#)

Gene Alias: CSIF, IL-10

Gene Type: protein coding

mRNA Refseq: [NM_010548](#)

Protein Refseq: [NP_034678](#)

MIM: [124092](#)

GeneID: [16153](#)

Chromosome Location: 1 69.9 cM

Pathway: Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; T cell receptor signaling pathway

Function: cytokine activity

REFERENCES

- 1.Asadullah K, Sabat R, Friedrich M, et al. Interleukin-10: an important immunoregulatory cytokine with major impact on psoriasis. Current drug targets. Inflammation and allergy. 2004; 3 (2): 185–192
- 2.Llorente L, Richaud-Patin Y. The role of interleukin-10 in systemic lupus erythematosus. J. Autoimmun. 2004; 20 (4): 287–289
- 3.Groux H, Cottrez F. The complex role of interleukin-10 in autoimmunity. J. Autoimmun. 2004; 20 (4): 281–285

FOR RESEARCH USE ONLY

2005-2008 Creative Biolabs. All rights reserved.

21 Brookhaven BLVD ·Port Jefferson Station, NY 11776, USA
Technical Support: T: 631-871-5806 ·F: 631-614-7828
E-mail: info@creative-biolabs.com
www.creative-biolabs.com