

BACKGROUND:

Interleukin 10 (IL-10) is an anti-inflammatory cytokine produced by macrophages and type 2 T helper (Th2) cells. IL-10 inhibits the production of pro-inflammatory cytokines such as interferon gamma (IFN γ), tumor necrosis factor alpha (TNF α), interleukin 2 (IL-2), interleukin 3 (IL-3), interleukin 4 (IL-4), and granulocyte-macrophage colony-stimulating factor (GM-CSF), made by macrophages and regulatory T cells. IL-10 also suppresses antigen presentation on antigen presenting cells, and enhances the survival, proliferation, and antibody production of B cells. Mouse IL-10 is not active on human cells.

Recombinant Mouse Interleukin 10 161 is a non-glycosylated protein monomer, containing XYZ amino acids and having a molecular mass of 18.9 kDa.

Cat. No.:
 RP2084AF

Alternate Names:
 Cytokine synthesis inhibitory factor, CSIF

AA Sequence:

MSRGQYSRED	NNCTHFPVGQ	SHMLLELRTA
FSQVKTFQQT	KDQLDNILLT	DSLMLQDFKGY
LGCQALSEMI	QFYLVEVMPQ	AEKHGPEIKE
HLNSLGEKLLK	TLRMRLRRCH	RFLPCENKSK
AVEQVKSDFN	KLQDQGVYKA	MNEFDIFINC
IEAYMMIKMK	S	

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
 Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
 10 mM sodium phosphate, pH 7.5

Stability:
 Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
 Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
 Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
 The activity is measured by dose-dependent MC/9 cell Proliferation, with Bioactivity Acceptance Criteria ED50 at 5 ng/mL.

Animal Component-Free
 This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

