

Product: **Recombinant Human Interleukin-10 / IL-10**
Cat #: 300-135P
Powder

Description	Interleukin 10 (IL-10) is an anti-inflammatory cytokine mainly produced by macrophages and Th2 cells. IL-10 functions by inhibiting pro-inflammatory cytokines made by macrophages and regulatory T cells including, IFN- γ , TNF- α , IL-2, and IL-3, IL-4, and GM-CSF. IL-10 is also known to suppress antigen presentation on antigen presenting cells. While human IL-10 can act on murine cells, murine IL-10 cannot act on human cells. Alternate names: B-TCGF, CSIF, TGIF
MW	Non-glycosylated protein, containing 161 amino acids, with a molecular weight of 16.6 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human IL-10 is lyophilized from 10 mM Na ₂ PO ₄ , pH 7.5.
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 a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
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.
Biological Activity	The activity is determined by the dose-dependent proliferation of mouse MC-9 cells and is typically less than 0.5 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.
AA Sequence	MSPGQGTQSE NSCTHFGNL PNMLRDLRDA FSRVKTFQK KDQLDNLLLK ESLLEDFKGY LGCQALSEMI QFYLEEVMQ AENQDPDIKA HVNSLGENLK TLRLRLRRCH RFLPCENKSK AVEQVKNAFN KLQEKGIYKA MSEFDIFINY IEAYMTMKIR N

Purity greater than 90% determined by Reducing and Non-reducing SDS-PAGE.

Protein content determined by Reducing and Non-reducing SDS-PAGE.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!