

IL-10 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78144
Synonyms:	Interleukin-10; IL-10; CSIF; IL10A; TGIF; B-TCGF; GVHDS; MGC126450; MGC126451
Species:	Human
Source:	HEK293
Accession:	P22301 (S19-N178)
Gene ID:	3586
Molecular Weight:	23-25 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	IL-10 Protein, a key immune regulatory cytokine, exerts potent anti-inflammatory effects to prevent excessive tissue damage caused by inflammation. It engages its heterotetrameric receptor, composed of IL10RA and IL10RB, triggering JAK1 and STAT2-mediated phosphorylation of STAT3. This leads to STAT3 translocation into the nucleus, driving the expression of anti-inflammatory mediators. IL-10 Protein targets antigen-presenting cells like macrophages and monocytes, inhibiting the release of pro-inflammatory cytokines. It also hinders antigen presentation by reducing MHC-class II and co-stimulatory molecule expression, thereby dampening T cell activation. Additionally, it reprograms metabolic pathways, including mTOR signaling, to control the inflammatory response of macrophages. The protein forms homodimers and interacts with IL10RA and IL10RB.
------------	--

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA