

IL-10 Protein, Human (CHO)

Cat. No.:	HY-P7030A
Synonyms:	rHuIL-10; CSIF
Species:	Human
Source:	CHO
Accession:	P22301 (S19-N178)
Gene ID:	3586
Molecular Weight:	18-19 kDa

PROPERTIES

AA Sequence	S P G Q G T Q S E N S C T H F P G N L P N M L R D L R D A F S R V K T F F Q M K D Q L D N L L L K E S L L E D F K G Y L G C Q A L S E M I Q F Y L E E V M P Q A E N Q D P D I K A H V N S L G E N L K T L R L R L R R C H R F L P C E N K S K A V E Q V K N A F N K L Q E K G I Y K A M S E F D I F I N Y I E A Y M T M K I R N
Biological Activity	1. The ED ₅₀ is <0.2 ng/mL as measured by MC/9 cells. 2. Immobilized human IL10 at 10 µg/mL (100 µl/well) can bind Cynomolgus IL10RA. The ED ₅₀ for this effect is 0.2189-1.732 µg/mL. 3. Immobilized Recombinant Human IL10/Interleukin-10 Protein at 2 µg/mL (100 µL/well) can bind Biotinylated Recombinant Rhesus IL10RA Protein. The ED ₅₀ for this effect is 218.9 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS or 20 mM PB, 150 mM NaCl, pH 7.4 or PBS, pH 7.4, 8% trehalose.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Interleukin 10 (IL-10) is an anti-inflammatory, immunomodulatory cytokine that regulates mucosal inflammation. A promising alternative is interleukin 10 (IL-10), a cytokine with multiple anti-inflammatory and immunoregulatory activities,
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including inhibition of T-cell/macrophage activation and proinflammatory cytokine synthesis^[1]. IL-10, a cytokine possessing strong anti-inflammatory properties, is under investigation for its therapeutic use as an immunosuppressant. The immunosuppressive actions of IL-10 and corticosteroids include inhibition of proinflammatory cytokine production by monocytes and polymorphonuclear leukocytes (IFN- γ , TNF- α , IL-1 β , IL-6, GM-CSF) both at the protein and messenger RNA levels and prevention of mitogen-induced T-cell proliferation^[2].

REFERENCES

[1]. Fedorak RN, et al. Recombinant human interleukin 10 in the treatment of patients with mild to moderately active Crohn's disease. The Interleukin 10 Inflammatory Bowel Disease Cooperative Study Group. *Gastroenterology*. 2000 Dec;119(6):1473-82.

[2]. Chakraborty A, et al. Pharmacodynamic interaction of recombinant human interleukin-10 and prednisolone using in vitro whole blood lymphocyte proliferation. *J Pharm Sci*. 2002 May;91(5):1334-42.

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

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