
Product Data Sheet

Product Name: IL-10 Human, Sf9
 Cat. No.: GP26050
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	with Ice Packs
Synonyms	Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, CSIF, IL10, GVHDS, IL10A, TGIF, T-Cell Growth Inhibitory Factor.		
Amino Acid Sequence	SPGQGTQSEN SCTHFPGNLP NMLRDLRDAF SRVKTFQMK DQLDNLLLKE SLLEDFKGYL GCQALSEMIQ FYLEEVMPQA ENQDPDIKAH VNSLGENLKT LRLRLRRCHR FLPCENKSKA VEQVKNAFNK LQEKGIYKAM SEFDIFINYI EAYMTMKIRN HHHHHH.		
Formulation	The IL-10 solution (0.5mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

Interleukin 10 or IL-10 or human cytokine synthesis inhibitory factor, is a cytokine (anti-inflammatory). IL10 gene is coding for il-10 in humans. Interleukin 10 has a receptor complex that is built from a couple of IL-10 receptor-1 and a couple of IL-10 receptor-2 proteins. therefore, the whole receptor unit consists of four IL-10 receptor molecules. IL-10 binds the receptor and causes STAT3 signalling through the phosphorylation of the cytoplasmic ends of IL-10 receptor 1 and IL-10 receptor 2 through JAK1 and Tyk2.

Biological Activity

Measured in a cell proliferation assay using MC/9 mouse mast cells. The ED50 range < 5 ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

IL-10 Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 166 amino acids (19-178 aa) and having a molecular mass of 19.4kDa. IL-10 is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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