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Recombinant human IL-10 protein

Catalog Number: ATGP3920

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-178aa

UniProt No.

P22301

NCBI Accession No.

NP 000563

Alternative Names

Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, CSIF, GVHDS, IL10A, TGIF, T-cell growth inhibitory factor

PRODUCT SPECIFICATION

Molecular Weight

19.4 kDa (166aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

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

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND



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Description

IL-10, also known as Interleukin-10, is an anti-inflammatory cytokine. It inhibits the synthesis of pro-inflammatory cytokines like IFN-gamma, IL2, IL3, TNF and GM-CSF produced by activated macrophages and by helper T-cells. This protein has effects in immunoregulation and inflammation and down-regulates the expression of Th1 cytokines, MHC class II antigens, and costimulatory molecules on macrophages. It acts on many cells of the immune system where it has profound anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. This protein controls the inflammatory response of macrophages by reprogramming essential metabolic pathways including mTOR signaling. Recombinant human IL-10, fused to Histag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

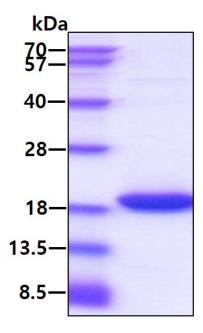
SPGQGTQSEN SCTHFPGNLP NMLRDLRDAF SRVKTFFQMK DQLDNLLLKE SLLEDFKGYL GCQALSEMIQ FYLEEVMPQA ENQDPDIKAH VNSLGENLKT LRLRLRRCHR FLPCENKSKA VEQVKNAFNK LQEKGIYKAM SEFDIFINYI EAYMTMKIRN < HHHHHH+>

General References

Jog NR., et al. (2018) Front Immunol. 9:2198. Harling K., et al. (2019) Cell Mol Immunol. 16:275-287.

DATA

SDS-PAGE



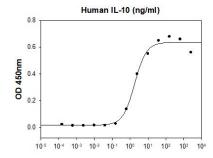
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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Human IL-10 stimulates cell proliferation of the MC/9 mouse mast cells. The ED50 range \leq 5 ng/ml.

