

Recombinant human I-TAC/CXCL11 protein

Catalog Number: ATGP1296

PRODUCT INFORMATION

Expression system

E.coli

Domain

22-94aa

UniProt No.

O14625

NCBI Accession No.

NP_005400

Alternative Names

C-X-C motif chemokine ligand 11, C-X-C motif chemokine 11, Beta-R1, H174, Interferon gamma-inducible protein 9, IP-9, Interferon-inducible T-cell alpha chemoattractant, I-TAC, Small-inducible cytokine B11, SCYB11, SCYB9B, b-R1, IP-9

PRODUCT SPECIFICATION

Molecular Weight

10.6 kDa (94aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 2mM DTT, 20% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

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

Tag

His-Tag

Application

SDS-PAGE

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

Description

Chemokine (C-X-C motif) ligand 11 (CXCL11) is a small cytokine belonging to the CXC chemokine family that is also called Interferon-inducible T-cell alpha chemoattractant (I-TAC) and Interferon-gamma-inducible protein 9

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(IP-9). CXCL11 is strongly induced by IFN-gamma and IFN-beta, and weakly induced by IFN-alpha. It is chemotactic for interleukin-activated T-cells but not unstimulated T-cells, neutrophils or monocytes. It is highly expressed in peripheral blood leukocytes, pancreas and liver, with moderate levels in thymus, spleen and lung and low expression levels were in small intestine, placenta and prostate. Recombinant human CXCL11 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH M>FPMFKRGRGRC LCIGPGVKAV KVADIEKASI MYPNNCDKI EVIITLKENK GQRCLNPKSK QARLIKKVE RKNF

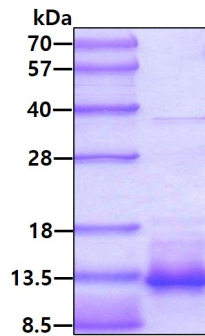
General References

Cole KE, et al. (1998) *J. Exp. Med.* 187 (12): 2009-21.

Mach, F., et al. (1999) *J. Clin. Invest.* 104: 1041-1050.

DATA

SDS-PAGE



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