

## Recombinant Mouse I-TAC (CXCL11)

**Synonyms:** C-X-C motif chemokine 11, Interferon-inducible T-cell alpha chemoattractant, Small-inducible cytokine B11, Scyb11.

**Introduction:** Recombinant mouse I-TAC (CXCL11) is a small cytokine belonging to the CXC chemokine family. I-TAC 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. Gene expression of CXCL11 is strongly induced by IFN-g and IFN-b, and weakly induced by IFN-a. The I-TAC chemokine elicits its effects on its target cells by interacting with the cell surface chemokine receptor CXCR3, with a higher affinity than do the other ligands for this receptor, CXCL9 and CXCL10. I-TAC is chemotactic for activated T cells. The CXCL11 gene is located on human chromosome 4 along with many other members of the CXC chemokine family.

**Description:** I-TAC Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 79 amino acids and having a molecular mass of 9.1kDa.

**Source:** *Escherichia Coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder..

**Formulation:** Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM Sodium Citrate, pH 4.0, with 600 mM NaCl.

**Solubility:** It is recommended to reconstitute the lyophilized I TAC in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized I TAC although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution I TAC should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

**Purity:** Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**Amino Acid Sequence:** FLMFKQGRCL CIGPGMKAVK MAEIEKASVI YPSNGCDKVE VIVTMKAHKR QRCLDPRSKQ ARLIMQAIEK KNFLRRQNM.

**Biological Activity:** The biological activity determined by a chemotaxis bioassay using murine CXCR3 transfected 293 cells is in a concentration of 10-100 ng/ml corresponding to a specific activity of 10,000-100,000 IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12343730
<i>medium</i>	20 µg	Cat.N°	12343734

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Gladiolenweg 2; 26169 Friesoythe; Germany  
 phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)