

CXCL11
Catalog # PVGS1654**Specification**

CXCL11 - Product Information

Primary Accession [O14625](#)
Species
Human

Sequence
Phe22- Phe94

Purity
> 97% as analyzed by SDS-PAGE
> 97% as analyzed by HPLC

Endotoxin Level
< 1 EU/ µg of protein by LAL method

Biological Activity
The biological activity determined by a chemotaxis bioassay using human IL-2 activated human T-lymphocytes is in a concentration range of 0.1-10 ng/ml.

Expression System
E. coli

Theoretical Molecular Weight
8.3 kDa

Formulation **Lyophilized from a 0.2 µm filtered solution in 20 mM PB, pH 7.4, 100 mM NaCl.**

Reconstitution
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at -20°C or -70°C. Upon reconstitution, the product should be stable for up to 1 week at 2-8°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

CXCL11 - Additional Information

Gene ID 6373

Other Names
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, CXCL11, ITAC, SCYB11, SCYB9B

Target Background

CXCL11 also known as I-TAC is belonging to the CXC chemokine family and shares 36 % and 37 % amino acid sequence homology with IP-10 and MIG, respectively. It is highly expressed in peripheral blood leukocytes, pancreas and liver. Expression of CXCL11 is strongly induced by IFN- γ and IFN- β , and weakly induced by IFN- α . This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3, which with a higher affinity than do the other chemokines for this receptor, CXCL9 and CXCL10. Similar to CXCL10, CXCL11 has been shown to be a chemoattractant for IL-2-activated T-lymphocytes, but not for isolated T-cells, neutrophils or monocytes.

CXCL11 - Protein Information

Name CXCL11

Synonyms ITAC, SCYB11, SCYB9B

Function

Chemotactic for interleukin-activated T-cells but not unstimulated T-cells, neutrophils or monocytes. Induces calcium release in activated T-cells. Binds to CXCR3. May play an important role in CNS diseases which involve T-cell recruitment. May play a role in skin immune responses.

Cellular Location

Secreted.

Tissue Location

High levels in peripheral blood leukocytes, pancreas and liver astrocytes. Moderate levels in thymus, spleen and lung. Low levels in placenta, prostate and small intestine. Also found in epidermal basal layer keratinocytes in skin disorders

CXCL11 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CXCL11 - Images