

Recombinant Human I-TAC/CXCL11

#R00365

Size: 5 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

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.

AA Sequence

FPMFKRGRCLCIGPGVKAVKVADIEKASIMYPSNNCD
KIEVIITLKENKGQRCLNPKSKQARLIKKVERKNF

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Beta-R1, H174, IP-9, Small-inducible Cytokine B11
Accession	O14625
GeneID	6373
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 8.3 kDa, a single non-glycosylated polypeptide chain containing 73 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. 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.
Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
Endotoxin	Less than 1 EU/μg of rHuI-TAC/CXCL11 as determined by LAL method.