Datasheet

Cat. No. P1452

Recombinant Human I-TAC/CXCL11

Information

Gene ID	6373
Accession #	O14625
Alternate Names	Beta-R1, H174, IP-9, Small-inducible Cytokine B11
Source	Escherichia coli.
M.Wt	Approximately 8.3 kDa, a single non-glycosylated polypeptide chain containing 73 amino acids.
AA Sequence	FPMFKRGRCL CIGPGVKAVK VADIEKASIM YPSNNCDKIE VIITLKENKG QRCLNPKSKQ ARLIIKKVER KNF
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
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.
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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5μg	100μg	500μg
Recombinant Human I-TAC/CXCL11	5μg	100μg	500μg

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

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuI-TAC/CXCL11 as determined by LAL method.

Description

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.

Reference

1. Tensen CP, Flier J, Rampersad SS, et al. 1999. Biochim Biophys Acta. 1446:167-72
2. Cole KE, Strick CA, Paradis TJ, et al. 1998. J Exp Med. 187:2009-21
3. Rani MR, Foster GR, Leung S, et al. 1996. J Biol Chem. 271:22878-84
4. Tensen CP, Flier J, Van Der Raaij-Helmer EM, et al. 1999. J Invest Dermatol. 112:716-22.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com