

Recombinant Human CXCL11 protein(His Tag)

Catalog Number:PKSH034196



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Interferon Inducible T-Cell α Chemokine;I-TAC;B-R1
Species	Human
Expression Host	E.coli
Sequence	Phe 22-Phe 94
Accession	O14625
Calculated Molecular Weight	9.1 kDa
Observed molecular weight	11 kDa
Tag	N-His
Bioactivity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR3.The ED ₅₀ for this effect is < 4 ng/mL.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

CXCL11, also known as I-TAC, SCYB9B, H174 and beta -R1, is a non-ELR CXC chemokine. CXCL11 cDNA encodes a 94 amino acid (aa) residue precursor protein with a 21 aa residue putative signal sequence, which is cleaved to form the mature 73 aa residue protein. CXCL11 shares 36% and 37% amino acid sequence homology with IP-10 and MIG (two other known human non-ELR CXC chemokines), respectively. CXCL11 is expressed at low levels in normal tissues including thymus, spleen and pancreas. The expression of CXCL11 mRNA is radically up regulated in IFN-gamma and IL-1 stimulated astrocytes. Moderate increase in expression is also observed in stimulated monocytes. CXCL11 has potent chemoattractant activity for IL-2 activated T cells and transfected cell lines expressing CXCR3, but not freshly isolated T cells, neutrophils or monocytes. The gene encoding CXCL11 has been mapped to chromosome 4.

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