Active Recombinant Swine Chemokine (C-X-C motif) Ligand 11

Cat. No. CXCL11-65S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Swine CXCL11 was expressed inYeast. MW= 8.9 kDa (79 aa).
Species	Pig
Source	Yeast
Description	Chemokine (C-X-C motif) ligand 11 (CXCL11) is a small cytokine belonging to the CXC chemokine family that is also called Interferon-inducible T-cell alpha chemoattractant (I-TAC) and Interferon-gamma-inducible protein 9 (IP-9). It 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-γ and IFN-β, and weakly induced by IFN-α.This 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.CXCL11 is chemotactic for activated T cells. Its gene is located on human chromosome 4 along with many other members of the CXC chemokine family.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.

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Amino Acid Sequence	FPMFKAGRCL CIGPGVKAVK VADIEKVSII HPSNNCDKTE VIVTLKAHKG RRCLNPKSKQ ANVIMKKVER MNFLRYQNV.
Bioactivity	The biological activity of recombinant swine CXCL11 was determined in a chemotaxis assay using a Boyden chamber with swine PBMC activated with PHA for 3 days followed by IL-2. Bioactivity is typically detected at 10 ng/mL.
Stability And Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	CXCL11 chemokine (C-X-C motif) ligand 11 [Sus scrofa]
Synonyms	chemokine (C-X-C motif) ligand 11; CXCL11; chemokine C-X-C motif ligand 11
Gene ID	100169744
mRNA Refseq	NM_001128491.1
Protein Refseq	NP_001121963.1
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Toll-like receptor signaling pathway

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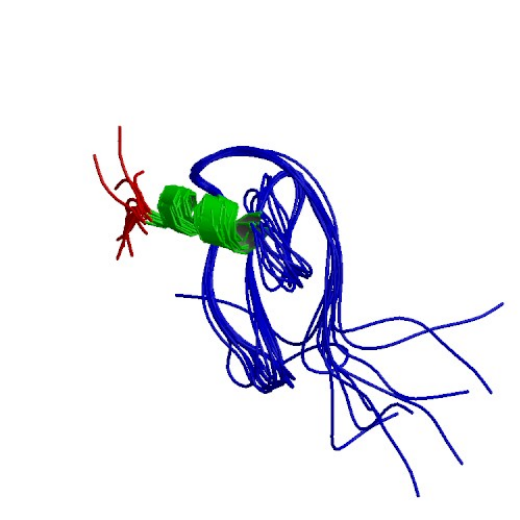
PDB rendering based on 1rjt.	

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