

Recombinant Cattle CXCL8 Protein, His-tagged

Cat. No. CXCL8-1058C Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Cattle CXCL8 Protein (Ala23-Pro101) with His tag was expressed in E. coli.

Species Cattle

Source E.coli

ProteinLength Ala23-Pro101

Description

The protein encoded by this gene is a member of the CXC chemokine family and is a major mediator of the inflammatory response. The encoded protein is commonly referred to as interleukin-8 (IL-8). IL-8 is secreted by mononuclear macrophages, neutrophils, eosinophils, T lymphocytes, epithelial cells, and fibroblasts. It functions as a chemotactic factor by guiding the neutrophils to the site of infection. Bacterial and viral products rapidly induce IL-8 expression. IL-8 also participates with other cytokines in the proinflammatory signaling cascade and plays a role in systemic inflammatory response syndrome (SIRS). This gene is believed to play a role in the pathogenesis of the lower respiratory tract infection bronchiolitis, a common respiratory tract disease caused by the respiratory syncytial virus (RSV). The overproduction of this proinflammatory protein is thought to cause the lung inflammation associated with cystic fibrosis. This proinflammatory protein is also suspected of playing a role in coronary artery disease and endothelial dysfunction. This protein is also secreted by tumor cells and promotes tumor migration, invasion, angiogenesis and metastasis. This chemokine is also a potent angiogenic factor. The

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binding of IL-8 to one of its receptors (IL-8RB/CXCR2) increases the permeability of blood vessels and increasing levels of IL-8 are positively correlated with increased severity of multiple disease outcomes (eg, sepsis). This gene and other members of the CXC chemokine gene family form a gene cluster in a region of chromosome 4q.

Form Freeze-dried powder

Molecular Mass Predicted Molecular Mass: 9.1 kDa

Purity > 97%

Applications Positive Control; Immunogen; SDS-PAGE; WB.

Stability The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Reconstitution Reconstitute in PBS or others.

GENE INFORMATION

Gene Name CXCL8 C-X-C motif chemokine ligand 8 [Bos taurus (cattle)]

Official Symbol CXCL8

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Synonyms	CXCL8; C-X-C motif chemokine ligand 8; IL8; IL-8; interleukin-8; C-X-C motif chemokine 8; chemokine (C-X-C motif) ligand 8; neutrophil activating peptide 1
Gene ID	280828
mRNA Refseq	NM_173925
Protein Refseq	NP_776350
UniProt ID	P79255

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