

Active Recombinant Porcine IL8

Cat. No. IL8-231P Lot. No. (See product label)

SPECIFICATION

Product Overview Interleukin-8 Porcine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 78 amino acids and having a molecular mass of 9.1kDa. The IL8 is purified by proprietary chromatographic techniques.

Species Pig

Source E.coli

ProteinLength 78 a.a.

Description Interleukin-8 (IL-8) is a chemokine produced by macrophages and other cell types such as epithelial cells. It is also synthesized by endothelial cells, which store IL-8 in their storage vesicles, the Weibel-Palade bodies. When first encountering an antigen, the primary cells to encounter it are the macrophages who phagocytose the particle. Upon processing, they release chemokines to signal other immune cells to come in to the site of inflammation. IL-8 is one such chemokine. It serves as a chemical signal that attracts neutrophils at the site of inflammation, and therefore is also known as Neutrophil Chemotactic Factor.

Form Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from a 0.2µm filtered concentrated solution in 1×PBS, pH 7.4.

Bio-activity The biological activity was determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration range of 20-200 ng/ml.

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AA Sequence	ARVSAELRCQ CINTHSTPFH PKFIKELRVI ESGPHCENSE IIVKLVNGKE VCLDPKEKWV QKVVQIFLKR TEKQQQQQ.
Purity	Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.
Stability	Lyophilized Interleukin-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL8 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized Interleukin 8 in sterile 18M-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	IL8 interleukin 8 [<i>Sus scrofa</i> (pig)]
Official Symbol	IL8
Synonyms	IL-8, CXCL8, Monocyte-derived neutrophil chemotactic factor, MDNCF, T-cell chemotactic factor, Neutrophil-activating protein 1, NAP-1, Protein 3-10C, Granulocyte chemotactic protein 1, GCP-1, Monocyte-derived neutrophil-activating peptide, MONAP, Emoctakin, K60, NAF, LECT, LUCT, 3-10C, LYNAP, SCYB8, TSG-1, AMCF-I, b-ENAP, Alveolar macrophage chemotactic factor I.
Gene ID	396880
mRNA Refseq	NM_213867
Protein Refseq	NP_999032

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UniProt ID	P26894
Chromosome Location	8
Pathway	ATF4 activates genes; Cellular responses to stress; Class A/1 (Rhodopsin-like receptors)
Function	CXCR chemokine receptor binding; chemokine activity; interleukin-8 receptor binding

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