

**Product Name: CXCL8 (IL-8)**

Catalog Numbers: CXCL8-5ug CXCL8-20ug CXCL8-50ug CXCL8-100ug CXCL8-1mg

**DESCRIPTION**

<b>Source</b>	E. coli derived Accession # P10145 (28-99)
<b>Modification</b>	None
<b>Actual Molecular Mass (Mass Spec)</b>	Mol weight confirmed by mass spec
<b>Predicted Molecular Mass</b>	8.386 kDa
<b>Extinction Coefficient</b>	7450 M <sup>-1</sup> cm <sup>-1</sup>
<b>Protein Sequence</b>	SAKELRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSGDRELCLDPKENWVQRVV EKFLKRAENS

**SPECIFICATIONS**

<b>Activity</b>	EC50 = 0.083nM determined by Migration Assay in cells expressing recombinant CXCR1
<b>Endotoxin Level</b>	<0.01 EU per 1µg of the protein by the LAL method
<b>Purity</b>	> 97% by SDS PAGE
<b>Formulations</b>	Lyophilized
<b>Carrier Protein</b>	None

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Spin tube prior to resuspending. Recommended at 100µg/mL in sterile water
<b>Shipping</b>	Room Temp

**Stability and Storage****Avoid repeated freeze-thaw cycles**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- Suggest to use immediately after reconstitution
- 1 month at -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND****Description**

Interleukin 8 (IL-8) (CXCL8) is secreted primarily by macrophages and monocytes. It is one of the key mediators for inflammatory responses. IL-8 is a strong chemottractant for neutrophils and monocytes, and promotes activation of these target cells by binding to two cell surface receptors CXCR1 and CXCR2. It is also a strong angiogenic agent, and is considered to play a role in the pathogenesis of bronchiolitis.

**References:**

1. "Interleukin-8, a chemotactic and inflammatory cytokine"  
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2. "Molecular cloning of a human monocyte-derived neutrophil chemotactic factor (MDNCF) and the induction MDNCF mRNA by interleukin 1 and tumor necrosis factor"  
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3. "Chemokines, CXCL|IL-8"  
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