

**BACKGROUND:**

Interleukin 8 (IL-8 or CXCL8) is a member of the CXC cytokine family and is produced by macrophages, epithelial, smooth muscle, and endothelial cells. IL-8 binds the G protein-coupled serpentine receptors CXCR1 and CXCR2. IL-8 recruits innate immune cells, induces phagocytosis, and stimulate angiogenesis.

Recombinant human Interleukin 8 is a non-glycosylated protein monomer, containing 77 amino acids and having a molecular mass of 8.9 kDa.

**Cat. No.:**

RP1175

**Alternate Names:**

CXCL8, neutrophil chemotactic factor

**AA Sequence:**AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPH  
CA NTEIIVKLSL GRELCDPKE NNVQRVVEKF LKRA  
ENS**TECHNICAL INFO****Source:***E. coli***Physical Appearance:**

Sterile Filtered white lyophilized (freeze-dried) powder.

**Formulation:**

10 mM sodium phosphate, pH 7.5

**Stability:**

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity determined by:**

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

**Endotoxin Level:**

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

