

Human Interleukin-8 (hIL-8)



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
8	#P10145	3576
Background	The prototypical CXC chemokine, IL-8, is best known for effects on neutrophils, specifically its ability to act as a chemoattractant and activate degranulation and respiratory burst (1,2,3). IL-8 is produced by a number of cell types including monocytes, T cells, neutrophils, fibroblasts, endothelial cells, and others (1). In addition to its effects on neutrophils, IL-8 promotes angiogenesis, inhibits endothelial cell apoptosis, and promotes the proliferation of melanoma cells in an autocrine fashion (1). As a result, IL-8 may be a contributing factor to the development of certain cancers (1,2). There are two distinct receptors for IL-8, CXCR1 and CXCR2; both are G protein-coupled receptors (1). Ligand binding induces Ca ²⁺ mobilization and activates the PI3K, PKC, Rho, and Rac pathways (1,3).	
Endotoxin	Less than 0.01 ng endotoxin/1 µg hIL-8.	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant hIL-8. All lots are greater than 98% pure.	
Source / Purification	Recombinant human IL-8 (hIL-8) Ser28-Ser99 (Accession #NM_000584) was produced in <i>E.coli</i> at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant hIL-8 was determined by upregulation of CD11b expression on primary human neutrophils. The ED ₅₀ of each lot is between 1-5 ng/ml.	
Background References	<ol style="list-style-type: none"> Payne, A.S. and Cornelius, L.A. (2002) <i>J Invest Dermatol</i> 118, 915-22. Brat, D.J. et al. (2005) <i>Neuro Oncol</i> 7, 122-33. Mukaida, N. (2003) <i>Am J Physiol Lung Cell Mol Physiol</i> 284, L566-77. 	

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