Revision 5

Human Interleukin-8 (hIL-8) Recombinant Protein

Cell Signaling
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25 µg

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
9	#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 or equal to 1 EU / 1 µg hIL-8.

Purity

A greater than 95% purity was determined by SDS-PAGE.

Source / Purification

Recombinant human IL-8 was expressed in *E. coli* and is supplied in a lyophilized form.

Background References

1. Payne, A.S. and Cornelius, L.A. (2002) *J Invest Dermatol* 118, 915-22.
2. Brat, D.J. et al. (2005) *Neuro Oncol* 7, 122-33.
3. Mukaida, N. (2003) *Am J Physiol Lung Cell Mol Physiol* 284, L566-77.

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