ore at +4C	SignalKine [™] Human IL-8 Chemiluminescent Sandwich ELISA K	(it	Cell Signaling
5		Or	ders: 877-616-CELL (2355) orders@cellsignal.com
	1 Kit ((96 assays) Low Volume Microplate)	Su	pport: 877-678-TECH (8324)
001	Species Cross Reactivity: UniProt ID: Entrez-Gene Id: H #P10145 #3576	We	b: info@cellsignal.com cellsignal.com
1		3 Trask Lane Danve	ers Massachusetts 01923 USA
For	Research Use Only. Not for Use in Diagnostic Procedures.		
Due	duct Includes Declust #	Quantity Calar	Chave and Taman

Product Includes	Product #	Quantity	Color	Storage Temp	
ELISA Wash Buffer (20X)	9801	25 ml	Colorless	+4C	
Luminol/Enhancer Solution	84850	3 ml	Colorless	RT	
Stable Peroxide Buffer	42552	3 ml	Colorless	RT	
Sealing Tape	54503	2 ea		+4C	

Description	SignalKine [™] Human IL-8 Chemiluminescent Sandwich ELISA Kit from Cell Signaling Technology (CST) is a solid phase sandwich enzyme-linked immunosorbent assay (ELISA) that detects human IL-8 (hIL-8) in multiple matrices. Unknown samples being tested for hIL-8 and hIL-8 standards are added to low volume microwells, where the hIL-8 is captured by the coated hIL-8 Rabbit mAb. Following a washing step, a biotinylated hIL-8 Detection Rabbit mAb is added to detect the captured hIL-8. HRP-linked Streptavidin is then used for detection of the biotinylated hIL-8 Detection Rabbit mAb. A chemiluminescent reagent is added for signal development. The magnitude of light emission, measured in relative light units (RLU) is proportional to the quantity of human hIL-8 in the sample.
	SignalKine™ Human IL-8 Chemiluminescent Sandwich ELISA Kit detects hIL-8 in multiple matrices that can be quantified by generating a standard curve with the recombinant hIL-8 protein standard provided. The hIL-8 standard range is from 13.7 to 10,000 pg/ml. Samples containing higher levels of hIL-8 can be diluted to fit into the standards range.
Background	IL-8 is the prototypical CXC chemokine. It is best known for effects on neutrophils, specifically its ability to act as a chemoattractant and activate degranulation and respiratory burst (1-3). 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 G protein-coupled receptors for IL-8, CXCR1 and CXCR2 (1). Ligand binding induces Ca ²⁺ mobilization and activates the PI3K, PKC, Rho, and Rac pathways (1,3).
Background References	1. Payne, A.S. and Cornelius, L.A. (2002) <i>J Invest Dermatol</i> 118, 915-22. 2. Brat, D.J. et al. (2005) <i>Neuro Oncol</i> 7, 122-33. 3. Mukaida, N. (2003) <i>Am J Physiol Lung Cell Mol Physiol</i> 284, L566-77.
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Revision 1

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