

Store at +4C  
#7898**SignalKine™ Human IL-8 Sandwich ELISA Kit****Orders:** 877-616-CELL (2355)  
orders@cellsignal.com**Support:** 877-678-TECH (8324)**Web:** info@cellsignal.com  
cellsignal.com

1 Kit ((96 assays) Low Volume Microplate)

**Species Cross Reactivity:** H  
**UniProt ID:** #P10145  
**Entrez-Gene Id:** #3576

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Product Includes	Product #	Quantity	Color	Storage Temp
ELISA Wash Buffer (20X)	9801	25 ml	Colorless	+4C
TMB Substrate	7004	6 ml	Colorless	+4C
STOP Solution	7002	6 ml	Colorless	+4C
Sealing Tape	54503	2 ea		+4C

Kit contents scale proportionally with size, except sealing tape.

Example: The V1 kit contains 5X the listed quantities above, but will exclude the sealing tape.

The microwell plate is supplied as 12 8-well modules - Each module is designed to break apart for 8 tests.

**Description**

SignalKine™ Human IL-8 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. An hIL-8 Rabbit mAb has been coated onto low volume microwells. hIL-8 standards and hIL-8-containing samples are added to the wells and captured by the coated antibody. 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. HRP substrate, TMB, is added for color development. The magnitude of absorbance for this developed color is proportional to the quantity of hIL-8 in the sample.

SignalKine™ Human IL-8 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 15.6 to 1000 pg/ml. Samples containing higher levels of hIL-8 can be diluted to fit into the standard 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 (1,2,3). 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 G protein-coupled receptors for IL-8, CXCR1 and CXCR2 (1). Ligand binding induces Ca<sup>2+</sup> mobilization and activates the PI3K, PKC, Rho, and Rac pathways (1,3).

**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.

**Trademarks and Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://cellsignal.com/trademarks) for more information.

**Limited Uses**

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in

any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Revision 1

# #7898

## SignalKine™ Human IL-8 Sandwich ELISA Kit

---

