

Recombinant Human Interleukin-8 (Monocyte) (IL-8)

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


Rev. 2.00







Catalog Number:	PHC0884	PHC0885	PHC0881	PHC0883
Quantity:	25 µg	50 µg	100 µg	1 mg
Lot Number:	See product label.			
Molecular Weight:	8.6 kDa			
Purity:	>95% as determined by SDS-PAGE analysis.			
Amino Acid Sequence:	SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS			
Biological Activity:	The biological activity was determined by measuring the dose dependent mobilization of intracellular calcium (calcium flux) with human neutrophils. Significant calcium mobilization is observed with ≥1 ng/mL (Specific Activity: 1.0 × 10 ⁶ units/mg) of recombinant human IL-8. The optimal concentration for each specific application should be determined by an initial dose response assay.			
Formulation:	Lyophilized, carrier free.			
Sterility:	Filtered prior to lyophilization through a 0.22 micron sterile filter.			
Endotoxin:	<0.1 ng/µg			
Production:	Recombinant human IL-8 is produced in <i>E. coli</i> and purified via sequential chromatography.			
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Lyophilized hIL-8 should be reconstituted in sterile, deionized water to a concentration of 0.1–1.0 mg/mL to regain full activity. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in low endotoxin medium or buffered solution with FBS or tissue culture grade BSA.			
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.			
Storage:	Lyophilized hIL-8 should be stored at 2°C to 8°C, preferably desiccated. Store reconstituted hIL-8 at ≤ -20°C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum.			
Expiration Date:	Expires one year from date of receipt when stored as instructed.			
References:	<p>Clark-Lewis, I., C. Schumacher, M. Baggiolini, and B. Moser (1991) Structure-activity relationships of interleukin8 determined using chemically synthesized analogs. <i>J. Biol. Chem.</i> 266(34):23128–23134.</p> <p>Esser, M.T., D.M. Haverstick, C.L. Fuller, C.A. Gullo, and V.L. Braciale (1998) Ca²⁺ signaling modulates cytolytic T lymphocyte effector functions. <i>J. Exp. Med.</i> 187(7):1057–1067.</p> <p>Graham, M.B. and T.J. Braciale (1997) Resistance to and recovery from lethal influenza virus infection in B lymphocyte-deficient mice. <i>J. Exp. Med.</i> 186(12):2063–2068.</p> <p>Rajan, R., R. Vanderslice, S. Kapur, J. Lynch, R. Thompson, and D. Djakiew (1996) Epidermal growth factor (EGF) promotes chemomigration of a human prostate tumor cell line, and EGF immunoreactive proteins are present at sites of metastasis in the stroma of lymph nodes and medullary bone. <i>Prostate</i> 28(1):1–9.</p> <p>Wagers, A.J., C.M. Waters, L.M. Stoolman, and G.S. Kansas (1998) Interleukin 12 and interleukin 4 control T cell adhesion to endothelial selectins through opposite effects on alpha 1,3-fucosyltransferase VII gene expression. <i>J. Exp. Med.</i> 188(12):2225–2231.</p> <p>Weng, Y., S.J. Siciliano, K.E. Waldburger, A. Sirotna-Meisher, M.J. Staruch, B.L. Daugherty, S.L. Gould, M.S. Springer, and J.A. DeMartino (1998) Binding and functional properties of recombinant and endogenous CXCR3 chemokine receptors. <i>J. Biol. Chem.</i> 273(29):18288–18291.</p> <p>Loparev, V., J. Parsons, J. Knight, J. Fanelli Panus, C. Ray, R. Buller, D. Pickup, and J. Esposito (1998) A third distinct tumor necrosis factor receptor of orthopoxviruses. <i>Proc. Nat'l. Acad. Sci.</i> 95(7):3786–3791.</p> <p>Fan, R., S.S. Tykodi, and T.J. Braciale (2000) Recognition of a sequestered self peptide by influenza virus-specific CD8(+) cytolytic T lymphocytes. <i>J. Immunol.</i> 164:1669–1680.</p>			

References, Continued:	Fan, J. and A.B. Malik (2003) Toll-like receptor-4 (TLR4) signaling augments chemokine-induced neutrophil migration by modulating cell surface expression of chemokine receptors. <i>Nature Medicine</i> 9(3):315–321. Xiong, H.G., J. Boyle, M. Winkelbauer, S. Gorantla, J.L. Zheng, A. Ghorpade, Y. Persidsky, K.A. Carlson and H.E. Gendelman (2003) Inhibition of long-term potentiation by interleukin-8: Implications for human immunodeficiency virus-1-associated dementia. <i>J. Neurosci. Res.</i> 71(4):600–607.
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Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

Limited Use Label License: Research Use Only

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

Manufactured under ISO 13485 Quality Standard

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

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