


Store at -20C  #98018	<b>Mouse IL-3 Recombinant Protein</b>	
	10 µg	
		<b>Orders:</b> 877-616-CELL (2355) orders@cellsignal.com
		<b>Support:</b> 877-678-TECH (8324)
		<b>Web:</b> info@cellsignal.com cellsignal.com
3 Trask Lane   Danvers   Massachusetts   01923   USA		

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

MW (kDa):	UniProt ID:	Entrez-Gene Id:
15.2	#P01586	16187
<b>Background</b>	<p>Interleukin-3 (IL-3) is produced by T cells, mast cells, and eosinophils (1). Target cells include hematopoietic progenitors, neutrophils, macrophages, mast cells, eosinophils, lymphoid, and erythroid cells (1). IL-3 supports growth and differentiation and is used as a media additive to support culture of many cell types (1). The IL-3 receptor is a heterodimer of the IL-3 specific <math>\alpha</math>-chain and the common <math>\beta</math>-chain, <math>\beta</math>c, which is also used by GM-CSF and IL-5. (1). Binding of IL-3 can also involve substitution of the <math>\beta</math>c by a <math>\beta</math>L-3-chain that appears to be specific for IL-3 (1,2). Binding of IL-3 to its cognate receptor(s) induces activation of Jak2, phosphorylation of multiple Stats (1, 3, 5, 6), and the PI3K/Akt pathway (1). IL-3 may play an important role in the development of airway inflammation associated with asthma (3-5).</p>	
<b>Endotoxin</b>	Endotoxin levels are less than or equal to 1 EU / 1 µg mL-3.	
<b>Purity</b>	A greater than or equal to 95% purity was determined by SDS-PAGE.	
<b>Source / Purification</b>	Recombinant mouse IL-3 was expressed in <i>E. coli</i> and is supplied in a lyophilized form.	
<b>Bioactivity</b>	The bioactivity of recombinant mL-3 was determined in an M-NFS-60 cell proliferation assay. The ED <sub>50</sub> of each lot is less than or equal to 250 pg/mL.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Reddy, E.P. et al. (2000) <i>Oncogene</i> 19, 2532-47.</li> <li>Hara, T. and Miyajima, A. (1992) <i>EMBO J</i> 11, 1875-84.</li> <li>Asquith, K.L. et al. (2008) <i>J Immunol</i> 180, 1199-206.</li> <li>Schroeder, J.T. et al. (2009) <i>J Immunol</i> 182, 2432-8.</li> <li>Munitz, A. et al. (2006) <i>J Immunol</i> 177, 77-83.</li> </ol>	

### 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.

**Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com**  
For Research Use Only. Not for Use in Diagnostic Procedures.