

## RECOMBINANT RAT INTERLEUKIN-4

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<b>CATALOG NUMBER:</b>	IL037	<b>QUANTITY:</b>	10 µg
<b>LOT NUMBER:</b>			
<b>DESCRIPTION:</b>	Interleukin-4 (IL-4) is a potent lymphoid cell growth factor which stimulates the growth and survivability of certain B cells and T cells. IL037 is a 14 kDa protein containing 126 amino acid residues.		
<b>SOURCE:</b>	<i>E. coli</i>		
<b>PURITY:</b>	Greater than 98% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per µg (1EU/µg) of IL-4.		
<b>ACTIVITY:</b>	Chemicon's IL-4 is fully biologically active when compared to standards. The ED <sub>50</sub> of IL037 as determined by the dose-dependent stimulation of the proliferation of con-A-activated rat spleen cells was found to be ≤ 1.5 ng/mL, corresponding to a specific activity of ≥ 6.6 x 10 <sup>5</sup> units/mg.		
<b>APPLICATIONS:</b>	For most <i>in vitro</i> applications, IL-4 exerts its biological activity in the concentration range of 0.1 to 10.0 ng/mL.		
<b>PRESENTATION:</b>	Lyophilized powder with no additives.		
<b>STORAGE/HANDLING:</b>	The lyophilized IL-4, though stable at room temperature, is best stored at -20°C. Reconstitute in water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into other buffered solutions and stored at 4°C for one week or at -20°C for future use. Reconstituted IL-4 should be stored in working aliquots at -20°C for up to 6 months.		

*For research use only; not for use as a diagnostic.*

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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