

## IL4

### Recombinant Porcine Interleukin-4

<b>Catalog No.</b>	CRI186A CRI186B	<b>Quantity:</b>	10 µg 25 µg
<b>Alternate Names:</b>	interleukin-4, BSF-1, binetrakin, pitrakinra, B cell growth factor 1, B-cell stimulatory factor 1, B_cell stimulatory factor 1, lymphocyte stimulatory factor 1		
<b>Description:</b>	Recombinant Porcine Interleukin-4. Interleukin 4 (IL4) is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL4, Th2 cells subsequently produce additional IL4. The cell that initially produces IL4, thus inducing Th0 differentiation, has not been identified, but recent studies (2009) suggest that basophils may be the effector cell. Its receptor is the Interleukin 4 receptor.		
<b>GeneID:</b>	397225		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	12.5 kDa		
<b>Formulation:</b>	Lyophilized from a sterile filtered, carrier-free solution.		
<b>Purity:</b>	>95% as determined by SDS-PAGE. Purified via sequential chromatography.		
<b>Endotoxin Level:</b>	<0.1 ng/µg of protein		
<b>Biological Activity:</b>	Determined by the dose-dependent proliferation of human TF-1 cells. The ED <sub>50</sub> is 1.0-4.0 ng/ml. A concentration range of 0.1-10.0 ng/ml is effective for most <i>in vitro</i> applications. The optimal concentration should be determined by the user for each specific application.		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Lyophilized pig IL-4 may be reconstituted in water, or in other appropriate buffered solutions to 0.1-1.0 mg/ml. These stock solutions should be apportioned into working aliquots and stored at -20°C to -80°C. Further dilution should be made in medium or buffered solution containing a carrier protein, such as PBS with 0.1-1.0% BSA. It is suggested that a carrier protein be added to all reconstituted recombinant pig IL-4 dilutions to ensure no loss in activity.		
<b>Storage &amp; Stability:</b>	Lyophilized recombinant pig IL-4 should be stored at ≤ 4°C, preferably desiccated. Store reconstituted recombinant pig IL-4 at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b> When stored according to these directions, lyophilized recombinant pig IL-4 is stable for at least one year, and reconstituted recombinant pig IL-4 is stable for at least 3 months.		

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