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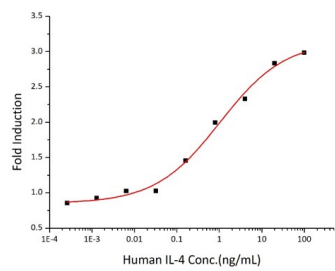
# Recombinant Human IL4 protein (Myc Tag, His Tag)



Catalog Number: Eg0104

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: Myc Tag, His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;1.0 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human IL4 protein His25-153Ser (Accession# P05112) with a Myc tag and a His tag at the C-terminus.</p> <p><b>GeneID:</b> 3565</p> <p><b>Accession:</b> P05112</p> <p><b>Predicted Molecular Mass:</b> 20.6 kDa</p> <p><b>SDS-PAGE:</b></p> <p><b>Formulation:</b> Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>IL-4 is a cytokine produced by CD4+ T cells in response to helminthes and other extracellular parasites. It promotes the proliferation and differentiation of antigen presenting cells. IL4 also plays a pivotal role in antibody isotype switching and stimulates the production of IgE. This cytokine has been applied in the treatment of autoimmune disorder like multiple myeloma, cancer, psoriasis, and arthritis. IL4 has also been extensively applied to inhibit detrimental effect of Th1. It may promote the growth of epithelial tumors by mediating increased proliferation and survival.</p>		
References	<ol style="list-style-type: none"><li>1. Bankaitis, Katherine Venmar, et al. Clinical &amp; experimental metastasis vol. 32,8 (2015): 847-56.</li><li>2. Hassan, Mir Tanveerul et al. Methods (San Diego, Calif.) vol. 217 (2023): 49-56.</li><li>3. Tang, M L, and A S Kemp. Pediatric allergy and immunology : official publication of the European Society of Pediatr</li></ol>		
Synonyms	IL-4, B-cell stimulatory factor 1, BSF-1, IL 4, interleukin 4		

Selected Validation Data



Measured in a cell proliferation assay using TF 1 human erythroleukemic cells. The ED50 for this effect is 0.5-2ng/mL