

Recombinant Protein Technical Manual Recombinant Rat ILA/ ILα Protein

RPES0437

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Product SKU: RPES0437

Species: Rat

Size: 10µg

Expression host: E. coli

Uniprot: P16598

Protein	Intorn	hafinh

Molecular Mass:	17.9 kDa
AP Molecular Mass:	16 kDa
Tag:	
Bio-activity:	
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per μ g as determined by LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Interleukin alpha: IL alpha: II1a

Immunogen Information:

Sequence: Ser115-Ser270

Background:

Interleukin 1 (IL) is a name that designates two proteins, IL α and IL β , which are the products of distinct genes, but which show approximately 25% amino acid (aa) sequence identity and which recognize the same cell surface receptors. IL α and IL β are both synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17,000 Da. Neither precursor contains a typical hydrophobic signal peptide sequence and most of the precursor form of IL α remains in the cytosol of cells, although there is evidence for a membranebound form of the precursor form of IL α . Although IL production is generally considered to be a consequence of inflammation, evidence suggests that IL is also temporally upregulated during bone formation and the menstrual cycle and can be induced in response to nervous system stimulation. In response to classic stimuli produced by inflammatory agents, infections or microbial endotoxins, a dramatic increase in the production of IL by macrophages and various other cells is seen.