

Recombinant Rat IL-1A/ IL-1 α Protein

Catalog Number:PKSR030449



Note: Centrifuge before opening to ensure complete recovery of vial contents.

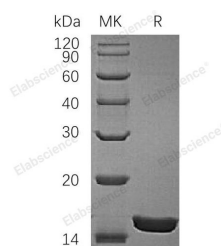
Description

Synonyms	Interleukin-1 alpha;IL-1 alpha;Il1a
Species	Rat
Expression Host	E.coli
Sequence	Ser115-Ser270
Accession	P16598
Calculated Molecular Weight	17.9 kDa
Observed molecular weight	16 kDa
Tag	None

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, 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, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Interleukin 1 (IL-1) is a name that designates two proteins, IL-1 α and IL-1 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-1 α and IL-1 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-1 α remains in the cytosol of cells, although there is evidence for a membranebound form of the precursor form of IL-1 α . Although IL-1 production is generally considered to be a consequence of inflammation, evidence suggests that IL-1 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,

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infections or microbial endotoxins, a dramatic increase in the production of IL-1 by macrophages and various other cells is seen.

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