

Recombinant Mouse IL-1 alpha

Information

Gene ID	16175
Accession #	Q3U0Y6
Alternate Names	Lymphocyte-activating factor, LAF, Leukocyte Endogenous Mediator, LEM, Endogenous Pyrogen, EP, Mononuclear Cell Factor, MCF, Hematopoietin-1
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 17.9 kDa, a single non-glycosylated polypeptide chain containing 156 amino acids.
AA Sequence	SAPYTYQSDL RYKLMKLVQR KFVMNDSLNLQ TIYQDVVKHY LSTTWLNDLQ QEVKFDYAY SSGGDDSKYP VTLKISDSQL FVSAQGEDQP VLLKELPETP KLITGSETDL IFFWKSINSK NYFTSAAYPE LFIATKEQSR VHLARGLPST TDFQIS
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 2 pg/ml, corresponding to a specific activity of > 5.0 × 10 ⁸ IU/mg.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Mouse IL-1 alpha	10 µg	100 µg	500 µg

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Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuIL-1α as determined by LAL method.

Description

Interleukin-1 alpha (IL-1α) is a non-secreted proinflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. Both IL-1α and IL-1β binds to the same receptor and has similar if not identical biological properties. Among various species, the amino acid sequence of mature IL-1α is conserved 60 % to 70 % and human IL-1 has been found to be biologically active on murine cell lines

Reference

1. Bankers-Fulbright, J.L., K.R. Kalli, and D.J. McKean. 1996. Life Sci, 59: 61-83.
2. Dinarello, C.A. 1997. Semin Oncol, 24: S9-81-S9-93.

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