

Interleukin-1 alpha Mouse Recombinant

Item Number	rAP-0606
Synonyms	Hematopoietin-1, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL-1 alpha, IL1, IL-1A, IL1F1.
Description	Interleukin-1A Mouse Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 156 amino acids and having a molecular mass of 17.9 kDa. The IL-1A is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01582
Amino Acid Sequence	SAPYTYQSDL RYKLMKLVQR KFMNDLSNQ TIYQDVDKHY LSTTWLNDLQ QEVKFDMYAY SSGG-DDSKYP VTLKISDSQL FVSAQGEDQP VLLKELPETP KLITGSETDL IFFWKSINSK NYFTSAAYPE LFIAT-KEQSR VHLARGLPSM TDFQIS.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interleukin-1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL1A should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 1xPBS, pH=7.4. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interleukin 1a in sterile 18MQ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ as determined by the dose-dependant stimulation of murine D10S cells is < 0.002 ng/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**