

Interleukin-1 alpha Rhesus Macaque Recombinant

Item Number	rAP-0660
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	Recombinant IL 1 alpha Rhesus Macaque produced in E.coli cells is a non-glycosylated, homodimeric protein containing 159 amino acid chain and having a molecular mass of 18.1kDa. The IL 1 alpha is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P48089
Amino Acid Sequence	SAPFSFLSNM TYHFIRIIKH EFILNDTLNQ TIIRANDQHL TAAAIHNLDE AVKFDMGAYT SSKDDTKVPV ILRISKTLQY VSAQDEDQPV LLKEMPEINK TITGSETNFL FFWETHGTKN YFISVAHPNL FIATKHDNWW CLAKGLPSIT DFQILENQA
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IL 1 alpha although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL 1 alpha 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 IL 1 alpha was lyophilized from a 0.2µm filtered concentrated solution in PBS, 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 IL 1 alpha Recombinant in sterile distilled H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 10 pg/ml, corresponding to a specific activity of > 1.0×10 ⁸ IU/mg.
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**