

Interleukin-1 beta Mouse Recombinant

Item Number	rAP-0551
Synonyms	Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta.
Description	Interleukin-1 beta Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17500 Dalton. The IL-1b is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P10749
Amino Acid Sequence	MVPIRQLHYR LRDEQQKSLV LSDPYELKAL HLNQINQQ VIFSMSFVQGEPNSNDKIPVA LGLKGKNLYL SCVMKDGTP T LQLESVDPKQ YPKKKMEKRFVFNKIEVKSK VEFESAEPN WYISTSQAEH KPVFLGNNSG QDIIDFTMES VSS.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interleukin-1b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL1b 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	Mouse IL-1b was lyophilized from a sterile filtered aqueous solution in 10mM sodium phosphate, pH 7.5. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interleukin-1b in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The activity as determined by the dose-dependent proliferation of mouse D10S cells is 0.9-1.3pg/ml, corresponding to a Specific Activity of 1.1 x 10 ⁶ Units/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**