

Interleukin-1 beta Equine Recombinant

Item Number	rAP-0585
Synonyms	Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta.
Description	Recombinant IL 1 beta Equine produced in E.coli cells is a non-glycosylated, homodimeric protein containing 153 amino acid chain and having a molecular mass of 17.3kDa. The IL 1 beta is purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q28386
Amino Acid Sequence	AAMHSVNCRL RDIYHKSLVL SGACELQAVH LNGENTNQV VFCMSFVQGE EETDKIPVAL GLKEKN-LYLS CGMKDGGKPTL QLETVDPNY PKRKMEKRFV FNKMEIKGNV EFESAMYPNW YISTSQAEKS PVFLGNTRGG RDITDFIMEI TSA
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IL 1 beta although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL 1 beta 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 beta was lyophilized from a 0.2µm filtered concentrated solution in PBS pH 7.4, containing 0.1 % Tween-80. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized IL 1 beta in sterile distilled 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 a cell proliferation assay using murine D10S cells is less than 20 pg/ml, corresponding to a specific activity of > 5.0 × 10 ⁷ 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**