9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-6404: IL1A Human, HEK

Application :	Functional Assay
Alternative Name :	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

Source: HEK.
Sterile Filtered White lyophilized (freeze-dried) powder.
IL-1 alpha is produced by activated macrophages, stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. IL1A proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.
Interleukin-1 alpha Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight of 18kDa due to glycosylation.The IL1A is purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 97.0% as determined by SDS-PAGE.
Content :	The IL-1A protein was lyophilized from a 0.2µm filtered solution of PBS pH 7.4 with 10% trehalose as protectant. It is recommended to reconstitute the lyophilized IL1A in deionized water to a stock solution of 0.5mg/ml.
Storage condition :	Lyophilized IL-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.

Application Note

Assay # 1: The biological activity was measured by its binding ability in a functional ELISA, the ED50 is typically 0.5-5 ÃÂµg/ml.ÃÂ Assay # 2: The biological activity was determined by the dose-dependent stimulation of the proliferation of mouse D10S cells, the ED50 is typically less than 1pg/ml, corresponding to a specific activity of >1x109 unit/mg.

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