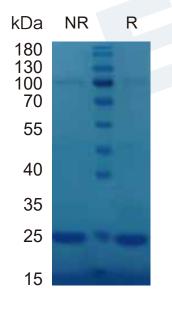
Epoto Biotech

Recombinant Mouse IL-1a, Tag Free

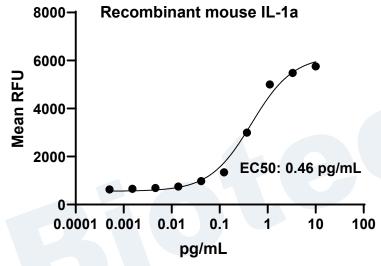
南京艾璞拓生物科技有限公司

Catalog Number: MF-1001a

General Information	
Synonyms	IL1 alpha; IL−1 alpha; IL1; IL1A; IL−1A; IL1−ALPHA; IL1F1; IL−1F1; IL1F1hematopoietin−1
Accession #	P01582
Source	Human embryonic kidney cell, HEK293-derived mouse IL-1a protein
	Ser113-Ala271
Predicted Moleucular we	eight 18.0 kDa
Components and Sto	orage and the same of the same
Formulation	Solution protein.
	Dissolved in sterile PBS buffer .
	This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.
Storage and Stability	Avoid repeated freeze-thaw cycles.
	It is recommended that the protein be aliquoted for optimal storage.
	12 months from date of receipt, −20 to −70 ° C as supplied.
Shipping	Shipping with dry ice
Quality	
Purity	> 95%, determined by SDS-PAGE
Endotoxin Level	<0.010 EU per 1 ug of the protein by the LAL method
Activity	Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells.
	The EC50 for this effect is 0.1-2 pg/mL.
SDS-PAGE	Bioactivity



4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.



Recombinant mouse IL-1a (Catalog # MF-1001A) stimulates cell proliferation of the D10.G4.1 mouse helper T cells.

Background

IL-1 alpha is a member of the interleukin 1 cytokine family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. Cytokines can be classified into two groups: pro- and anti-inflammatory. Pro-inflammatory cytokines, including IFNgamma, IL-1, IL-6, and TNF-alpha, are predominantly derived from the innate immune cells and Th1 cells. Anti-inflammatory cytokines, including IL-10, IL-4, IL-13, and IL-5, are synthesized from Th2 immune cells. IL-1 alpha is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. It is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. IL-1 alpha stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity.

Reference

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- 4. Dinarello CA, et al. (1997) Semin Oncol. 24 (3 Suppl 9):S9-81-S9-93.

Contact us



Global www.epotobiotech.com service@epotobiotech.com

China No.10 Xinghuo Road, Pukou District, Nanjing China TEL:+86 18652072210