

Swine recombinant IL-1 alpha (Interleukin-1 alpha) protein, AF

Catalog Number: PROTP18430-1

Overview

Product Name	Swine recombinant IL-1 alpha (Interleukin-1 alpha) protein, AF
Description	Interleukin 1-alpha (IL-1alpha), also named hematopoietin 1, is a 17.65 kDa cytokine with 159 amino acid residues. IL-1alpha is mainly expressed in macrophages, neutrophils, epithelial cells, and endothelial cells. When IL-1alpha binds to the IL-1 receptor, It mediates a wide variety of biological processes such as cell division, angiogenesis, production of interleukin-2, and cellular sodium ion homeostasis. In addition, IL-1alpha also plays a critical role in immune responses, such as fever and inflammation, and triggers tumor necrosis factor-alpha.
Size	5ug,20ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 19.02 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce D10.G4.1 cells proliferation. The ED₅₀ for this effect is 50 pg/mL.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MSATYSFQSNMKYNFMRVINHCILNDARNQSIIRDPSGQYLMAAVLNNLDEAVKFDMAAYTSNDDSQLPVTLRISETRLFVSAQNEDEPVLLKELPET
PKTIKDETSLLFFWEKHGNMDYFKSAAHPKLFIAATRQEKLVHMAPGLPSVTDFQILENQS with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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