

Mouse recombinant IL-1RA (Interleukin-1 receptor antagonist) protein, AF

Catalog Number: PROTP25085-3

Overview

Product Name	Mouse recombinant IL-1RA (Interleukin-1 receptor antagonist) protein, AF
Description	Interleukin 1 receptor antagonist (IL-1RA) predicts a molecular mass of 19.8 kDa, is a member of the IL-1 family that binds to IL-1 receptors but does not induce any intracellular response. Two structural variants of IL-1RA have previously been described: a 17 kDa form that is secreted from monocytes, macrophages, neutrophils, and other cells (sIL-1RA) and an 18 kDa form that remains in the cytoplasm of keratinocytes and other epithelial cells, monocytes, and fibroblasts (icIL-1RA).
Size	5ug,20ug,100ug
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 18.27 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to inhibit IL-1 alpha -dependent proliferation in D10.G4.1 cells. The ED₅₀ for this effect is <50 ng/mL.

Endotoxin

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

Amino Acid Sequence

MRPSGKRPCCKMQAFRIWDTNQKTFYLRNNQLIAGYLQGPNIKLEEKIDMVPIDLHSVFLGIHGGKLCCLSCAKSGDDIKLQLEEVNITDLSKNKEEDKRFT
FIRSEKGPTTSFESAACPGWFLCTTLEADRPVSLTNTPEEPLIVTKFYFQEDQ 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.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Mouse recombinant IL-1RA (Interleukin-1 receptor antagonist) protein, AF