

Recombinant Equine Interleukin-1 Receptor Antagonist Protein

Catalog No: #AP60274

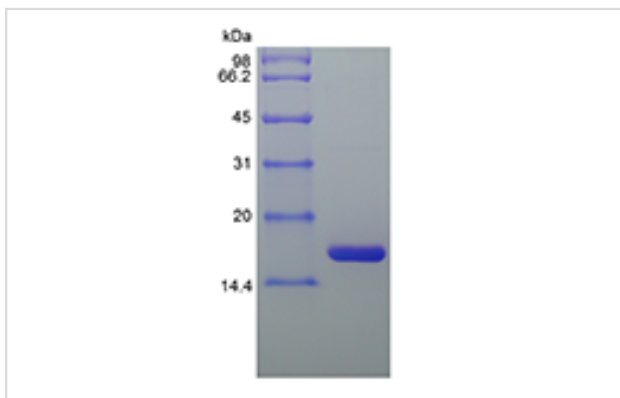
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Package Size: #AP60274-1 5ug #AP60274-2 100ug #AP60274-3 500ug

Description

Product Name	Recombinant Equine Interleukin-1 Receptor Antagonist Protein
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	IL-1RN, IRAP
Calculated MW	Approximately 17.4 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
Target Sequence	HPLGKRPKM QAFRIWDVNQ KTFYMRNNQL VAGYLQESNT KLQEKIDVVP IEPDALFLGL HGRKLCLACV KSGDEIRFQL EAVNITLDSK NKEENKRFTF IRSNSGPTTS FESAACPGWF LCTAQEADRP VSLTNKPKES FMVTKFYLQE DQ
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> -□ A minimum of 12 months from date of receipt, when stored at &le;-20 °C as supplied. -□ 1 month, 2 to 8 °C under sterile conditions after reconstitution. -□ 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

IL-1RA was initially called the IL-1 inhibitor which is encoded by the IL1RN gene and it is a member of the interleukin 1 cytokine family. It is secreted by various types of cells including immune cells, epithelial cells, and adipocytes. IL-1RA has functions of inhibiting the activity of interleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP for signaling. IL-1RA is also used in the treatment of rheumatoid arthritis, an autoimmune disease in which IL-1 plays a key role. The equus caballus IL-1RA is a single non-glycosylated polypeptide chain containing 152 amino acids and it has been shown to block the inflammatory responses induced by IL-1 both in vitro and in vivo. The protein shows 26 % amino acid homology to IL-1 ϵ Y and 19 % homology to IL-1 α . It also shares 78 %~80 % a.a. sequence identity with murine, rat, porcine IL-1RA.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.