
Product Data Sheet

Product Name: IL 1RA Horse
 Cat. No.: GP20467
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-1 receptor antagonist protein; IL-1RN; IL-1ra; IRAP; IL1 inhibitor; IL1RN; IL1RA.		
Amino Acid Sequence	HPLGKR PCKM QAFRIWDVNQ KTFYMRNNQL VAGYLQESNT KLQEKIDVVP IEPDALFLGL HGRKLCLACV KSGDEIRFQL EAVNITDLSK NKEENKRFTF IRSNSGPTTS FESAACPGWF LCTAQEADRP VSLTNKPKES FMVTKFYLQE DQ.		
Solubility	It is recommended to reconstitute the lyophilized IL-1RA in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The IL-1RA was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

Introduction

Interleukin-1 ra is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

Biological Activity

The ED50 as determined by inhibiting IL-1 α -dependent proliferation of murine D10.G4.1 helper T cells is less than 3.0 µg/ml, corresponding to a specific activity of > 333 IU/mg in the presence of 50 pg/ml rHuIL-1 α .

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized IL-1RA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL-1RA 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.

Background

Recombinant Horse Interleukin-1 Receptor Antagonist produced in E.coli cells is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17.4kDa. The IL-1RA is purified by proprietary chromatographic techniques.

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