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IL 1RA Horse

Interleukin-1 Receptor Antagonist Horse Recombinant
CYK0280

Product Overview

Name	IL 1RA Horse
Description	
Interleukin-1 Receptor Antagonist Horse Recombinant	
Accession (Primary)	O18999
Synonyms	
Interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IRAP, IL1 inhibitor, IL1RN, IL1RA.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The IL-1RA was lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
HPLGKRPCKM QAFRIWDVNQ KTFYMRNNQL VAGYLQESNT KLQEKIDVVP IEPDALFLGL HGRKLCLACV KSGDEIRFQL EAVNITDLSK NKEENKRFTF IRSNSGPTTS FESAACPGWF LCTAQEADRP VSLTNKPKES	

FMVTKFYLQE DQ.

Biological Activity

The ED 50 as determined by inhibiting IL-1α-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-1α.

Solubility

It is recommended to reconstitute the lyophilized IL-1RA in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 1RA Horse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O18999)