

32-1381: pIL 1RA Recombinant Protein

Alternative Name : IRAP,IL1F3,IL1RA,IL-1ra3,ICIL-1RA,IL1RN,IL1 inhibitor,IL-1ra,MGC10430.

Description

Source : Escherichia Coli. Recombinant IL 1RA Porcine produced in E.coli cells is a non-glycosylated, homodimeric protein containing 152 amino acid chain and having a molecular mass of 17.1kDa. The IL 1RA is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The IL 1RA was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4, containing 1mM DTT.
Storage condition :	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.
Amino Acid :	HPLGKRPCR M QAFRIWDVNQ KTFYLRNNQL VAGYLQGPNT KLEEKIDVVP VEPHFVFLGI HGGKLCCLSCV KSGDEMKLQL DAVNITDLRK NSEQDKRFTF IRSDSGPTTS FESAACPGWF LCTALEADQP VGLTNTPKAA VKVTKFYFQQ DQ

Application Note

It is recommended to reconstitute the lyophilized IL 1RA in sterile distilled H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. The ED₅₀ as determined by inhibiting IL-1a-dependent proliferation of murine D10S cells is less than 50 ng/ml, corresponding to a specific activity of > 2.0 x 10⁴ IU/mg in the presence of 75 pg/ml rPoIL-1a.