

## 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

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 20 µg   |
| <b>Purification :</b>      | Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.   |
| <b>Content :</b>           | The IL 1RA was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4, containing 1mM DTT.  |
| <b>Storage condition :</b> | 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. |
| <b>Amino Acid :</b>        | HPLGKRPCRM 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 H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub> 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 10<sup>4</sup> IU/mg in the presence of 75 pg/ml rPoIL-1a.

