

# Active Recombinant Rhesus IL1A protein

**Cat. No.** IL1A-83R    **Lot. No.** (See product label)

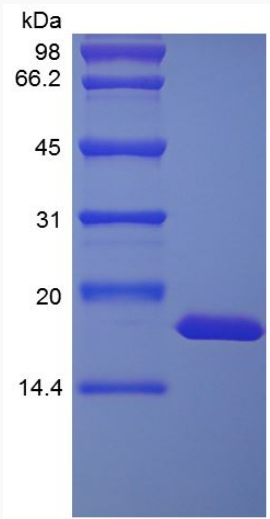
## SPECIFICATION

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Rhesus IL1A protein(P48089)(113-271 aa) was expressed in E.coli.                                                                                                                                         |
| <b>Species</b>          | Rhesus                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 113-271 aa                                                                                                                                                                                                                  |
| <b>Form</b>             | Lyophilized from a 0.2 μ filtered concentrated solution in PBS, pH 7.4.                                                                                                                                                     |
| <b>Bio-activity</b>     | Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 10 pg/ml, corresponding to a specific activity of $> 1.0 \times 10^8$ IU/mg. |
| <b>Molecular Mass</b>   | Approximately 18.1 kDa, a single non-glycosylated polypeptide chain containing 159 amino acids.                                                                                                                             |
| <b>AASequence</b>       | SAPFSFLSNM TYHFIRIKH EFILNDTLNQ TIIRANDQHL TAAAIHNLDE<br>AVKFDMGAYT SSKDDTKVPV ILRISKTKLY VSAQDEDQPV LLKEMPEINK<br>TITGSETNFL FFWETHGTKN YFISVAHPNL FIATKHDNWV CLAKGLPSIT<br>DFQILENQA                                      |
| <b>Endotoxin</b>        | Less than 0.1 EU/g of rRhIL-1α as determined by LAL method.                                                                                                                                                                 |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >97% by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °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.                                                                                                        |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| <b>SDS-PAGE</b>       |                                                                                                                                                                                                                                                                                                   |