

IL-1 beta/IL-1F2 Protein, Rat, Recombinant

General Information

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| Synonyms: | IL-1 β ; interleukin 1, β |
| Protein Construction: | Val117-Ser268 |
| Species: | Rat |
| Expression Host: | E. coli |
| Accession: | Q63264 |
| Molecular Weight: | 17.3 kDa (Reducing conditions) |

QC Testing

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| Biological Activity: | ED 50 < 10.0 pg/ml, measured by a cell proliferation assay using mouse D10S cells, corresponding to a specific activity of > 1.0 $\times 10^8$ units/mg. |
| Purity: | > 95% as determined by SDS-PAGE > 95% as determined by HPLC |
| Endotoxin: | < 0.2 EU/ μ g of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22 μ m filtered solution in PBS. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-1 Beta (IL-1 Beta) is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 alpha and IL-1 beta bind to the same receptor and have similar if not identical biological properties. These cytokines have a broad range of activities including, stimulation of thymocyte proliferation, by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 beta is a secreted cytokine, IL-1 alpha is predominantly a cell-associated cytokine.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481