

Recombinant Human IL-1A/IL-1 α Protein

Catalog Number: PKSH033458

Note: Centrifuge before opening to ensure complete recovery of vial contents.

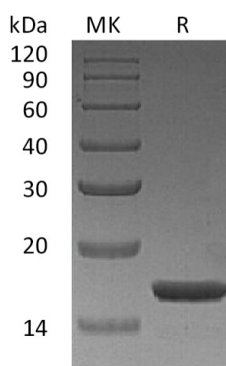
Description

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species | Human |
| Mol_Mass | 19 kDa |
| Accession | P01583 |
| Bio-activity | Measure by its ability to induce D10.G4.1 cells proliferation. The ED ₅₀ for this effect is <10 pg/mL. The specific activity of recombinant human IL-1 alpha is approximately >1x10 ⁸ IU/ mg. |

Properties

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity | > 98 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 0.1 EU per μ g of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 98 % as determined by reducing SDS-PAGE.

Background

Interleukin-1 alpha (IL1 α) is a cytokine member of the interleukin-1 family. IL-1 consists of two distinct forms: IL1 α and IL1 β that recognize the same cell surface receptors but are distinct proteins with approximately 25% amino acid sequence identity. IL1 α is constitutively produced by epithelial cells and plays an essential role in maintenance of skin barrier function. Upon stimulation, a wide variety of cells including osteoblasts, monocytes, macrophages can be induced to express IL1 α . IL1 α possesses a wide range of metabolic, physiological, haematopoietic activities, and is critically involved in the regulation of the immune responses and inflammatory responses.

For Research Use Only