A Reliable Research Partner in Life Science and Medicine

Recombinant Human IL-1A/IL-1α Protein

Catalog Number: PKSH033458

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

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Species Human

Source E.coli-derived Human IL-1A/IL-1α protein Ser113-Ala271, with an C-terminal His

Calculated MW19 kDaObserved MW17 kDaAccessionP01583

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 μg 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.

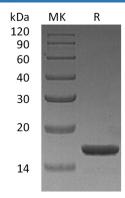
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

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

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