

RPES8242

Product Information

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|---------------------|----------|-------------------------|--------|-------------------|------------|
| Product SKU: | RPES8242 | Expression Host: | E.coli | Size: | 20 μ g |
| Tag: | N-Trx | Reactivity: | Rat | Accession: | P16598 |

Additional Information

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|-----------------------|---------------|---------------------|--------|
| Calculated MW: | 37 kDa | Observed MW: | 35 kDa |
| Sequence: | Ser115-Ser270 | | |

Protein Information

Background: IL-1 alpha is a member of the interleukin 1 cytokine family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T-and B-cells) immune systems. Cytokines can be classified into two groups: pro-and anti-inflammatory. Pro-inflammatory cytokines, including IFN γ , IL-1, IL-6, and TNF-alpha, are predominantly derived from the innate immune cells and Th1 cells. anti-inflammatory cytokines, including IL-10, IL-4, IL-13, and IL-5, are synthesized from Th2 immune cells. IL-1 alpha is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. It is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. IL-1 alpha stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity.

Synonyms: interleukin, Hematopoietin, IL1F1hematopoietin, IL1F, IL-1F, alpha, BAF, Hematopoietin-1, IL1, IL1 alpha, IL-1 alpha, IL1-A, IL-1A, IL1-ALPHA, IL1F1, IL-1F1,

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IL1F1hematopoietin-1, interleukin 1, interleukin-1 alpha, LAF, LEM, preinterleukin 1 alpha, pro-interleukin-1-alpha, IL1a, FAF, Hematopoietin 1, IL 1 alpha, IL 1A, IL1, IL1 ALPHA, IL1F1, Interleukin 1 alpha, LAF, LEM, Preinterleukin 1 alpha, IL1a

Endotoxin: < 10 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

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.

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