

RPES8245

Product Information

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| Product SKU: | RPES8245 | Expression Host: | E.coli | Size: | 20µg |
| Tag: | N-Gst | Reactivity: | Rat | Accession: | A3QPB9 |

Additional Information

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| Calculated MW: | 40.1 kDa | Observed MW: | 45 kDa |
| Sequence: | His18-Ser146 | | |

Protein Information

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| Background: | IL-21 belongs to the IL-15/IL-21 family. It is a cytokine with immunoregulatory activity. 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. IL-21 is expressed in activated CD4-positive T-cells but not in CD8-positive T-cells, B-cells, or monocytes. It may promote the transition between innate and adaptive immunity. IL-21 has been tried as a therapy for alleviating allergic responses. It can significantly decrease pro-inflammatory cytokines produced by T cells in addition to decreasing IgE levels in a mouse model for rhinitis (nasal passage inflammation). |
| Synonyms: | Za11, IL21 |
| 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.