

Recombinant Human RANTES Protein(Trx Tag)

Catalog Number: PDEH100539

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

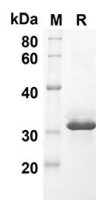
Description

| | |
|---------------|---|
| Species | Human |
| Source | E.coli-derived Human RANTES protein Ser24-Ser91, with an N-terminal Trx |
| Calculated MW | 27.4 kDa |
| Observed MW | 31 kDa |
| Accession | P13501 |
| Bio-activity | Not validated for activity |

Properties

| | |
|----------------|--|
| Purity | > 90% as determined by reducing SDS-PAGE. |
| Endotoxin | < 10 EU/mg 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 a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis. |

Data



SDS-PAGE analysis of Human RANTES proteins, 2 µg/lane of Recombinant Human RANTES proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 27.4 KD

Background

Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. May activate several chemokine receptors including CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-1-infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-suppressive activity compared with RANTES(1-68) and RANTES(3-68) and is generated by an unidentified enzyme associated with monocytes and neutrophils