Recombinant Mouse IL-13 Protein(His Tag)

Catalog Number: PDEM100328

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

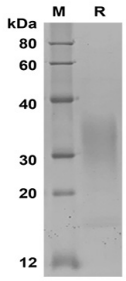
Description

Species	Mouse
Source	E.coli-derived Mouse IL-13 protein Ser26-Phe131, with an C-teminal His
Calculated MW	11.5 kDa
Observed MW	30-35 kDa
Accession	P20109
Bio-activity	Not validated for activity

Properties

Purity	> 80% 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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 Mouse IL-13 proteins, 2μg/lane of Recombinant Mouse IL-13 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 30-35 kDa

Background

Interleukin 13 (IL-13) is a single-chain glycosylated polypeptide, which belongs to the IL-13/IL-4 family. IL-13 protein is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 exerts its effects through a multi-subunit receptor comprising the alpha chain of the IL-4 receptor (IL-4Rα) and at least one of two known IL-13-specific binding chains (IL-13 Rα1 and IL-13 Rα2). As a cytokine, IL-13 protein is critical in regulating inflammatory, immune responses, and diseases. Also, it inhibits the production of pro-inflammatory cytokines and chemokines, and thus down-regulates macrophage activity. IL-13 protein and antibody are more importantly implicated as a central mediator of immunoregulatory processes in various cell types.