Recombinant Human Interleukin-13/IL-13 Protein (His Tag)

Catalog No. PKSH032617

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

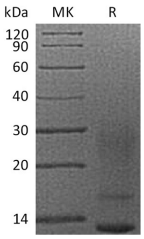
Description

Synonyms	ALRH;IL-13;P600;IL13
Species	Human
Expression Host	HEK293 Cells
Sequence	Gly35-Asn146
Accession	AAH96139
Calculated Molecular Weight	13.4 kDa
Observed molecular weight	13-30 kDa
Tag	C-His
Bioactivity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is 1.5-4.5 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.01 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℃. 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 of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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



> 95 % as determined by reducing SDS-PAGE.

Background

Interleukin-13 is also known as IL-13. It is a protein that in humans is encoded by the IL13 gene. Interleukin-13 is an

immunoregulatory cytokine produced primarily by activated Th2 cells.It is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils.

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