

Recombinant Rat Interleukin-13 (IL-13)

CATALOG #:	4166-10	10 µg
	4166-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>95% by SDS-PAGE and HPLC analysis Endotoxin level is <0.1 ng per µg of IL-13.	
MOL. WEIGHT:	12.7 kDa	
FORMULATION:	Sterile filtered and lyophilized with no additives	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can be diluted into other aqueous buffers and stored at 4° C for 1 week or -20° C for future use.

STORAGE CONDITIONS:

The lyophilized IL-13 is best-stored desiccated below 0° C. Reconstituted IL-13 should be stored at working aliquots at -20° C. For long term storage it is recommended to add a carrier protein (0.1% BSA).

DESCRIPTION:

IL-13 is an immunoregulatory cytokine produced mainly by T helper 2 cells, but also by mast cells and NK cells. IL-13 is a unique cytokine having similar structural features and functional characteristics as IL-4, but only shares ~30% homolog with the IL-4 sequence. IL-13 inhibits IL-1β, IL-6, IL-8, and TNF-α resulting in anti-inflammatory effects on monocytes and macrophages. IL-13 also induces B cells to proliferate and modulating TH2 cell development. Recombinant rat IL-13 is an 11.9 kDa protein containing 109 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells was typically 2-6 ng/m.

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