

Product Description

Alternate Names: NC30 **Accession/Uniprot Number:** P20109

Description: Interleukin 13 (IL-13) is a cytokine secreted from type 2 T helper (Th2) cells. IL-13 has overlapping functions with interleukin 4 (IL-4), including the induction of immunoglobulin E (IgE) secretion from B cells, and the inhibition of interleukin 1 beta (IL-1 β), tumor necrosis factor alpha (TNF- α), interleukin 8 (IL-8), and interleukin 6 (IL-6) inflammatory cytokine expression. IL-13 also regulates immune cell inflammation in response to the pathophysiological changes of surrounding non-immune cells. The IL-13 receptor consists of the IL-4Ra and IL-13Ra1 subunits. IL-13 can also bind the IL-13Ra2 receptor with high affinity. IL-13 functions are mediated through the JAK/STAT signaling pathway. Human and mouse IL-13 are cross-reactive.

Source: Genetically modified *E.coli*.

Predicted MW: Monomer, 12.3 kDa (111 amino acids)

AA Sequence: MPVPRSVSLP LTLKELIEEL SNITQDQTP L CNGSMVWSVD LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

Product Specifications

Specification	Method of Determination	Acceptance Criteria	Result
Purity	Reducing and Non-reducing SDS-PAGE	$\geq 95\%$	>95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	0.118 EUs/ug
Biological Activity	TF-1 cell proliferation	ED50 ≤ 10 ng/mL ($\geq 1.0 \times 10^5$ units/mg)	ED50 = 2.84 ng/mL (3.5×10^5 units/mg)

Product Preparation and Storage

Country of Origin: USA **Shipping:** Room temperature **Storage Prior to Reconstitution:** -20°C

Reconstitution: Sterile 20 mM HCl at 0.1 mg/mL **Date of Recon.:** _____ **Initials:** _____

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

Expiration Date: _____ **Date Received:** _____

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

X Olivia Schneider, PhD 7-6-2017

Quality Assurance