DATASHEET

Recombinant Murine Interleukin-13

CAT. NO. ARP6695

KEY FEATURES

Target	Interleukin-13	Source/Expression System	E.coli
Reactivity	Murine	Aapplication	SDS-PAGE
Abbreviation	rMuIL-13		

BACKGROUND

Murine Interleukin-13 (IL-13) is expressed by the IL13 gene located on the chromosome 11 and secreted by many cell types, especially T helper type 2 (Th2) cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1β, TNF-α, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching, resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human, mouse and rat IL-13 share low homology, but have cross species activity. Recombinant Murine IL-13 is a 12.3kDa protein consisting of 111 amino acid

PRODUCT OVERVIEW

Molecular Weight	Approximately 12.3 kDa, a single non-glycosylated polypeptide chain containing 111 amino acids.
Accession	P20109 Pro22-Phe131 with a N-terminal Met
A.A. Sequence	MPVPRSVSLPLTLKELIEELSNITQDQTPLCNGSMVWSVDLAAGGFCVALDSLTNISNCNAIYRTQRILHGLCNRKAP TTVSSLPDTKIEVAHFITKLLSYTKQLFRHGPF
Purity	＞98% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 4 ng/ml, corresponding to a specific activity of ≥ 2.5×10^5 IU/mg
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.1 EU/μg of rMuIL-13 protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile aqueous buffer to an appropriate concentration. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

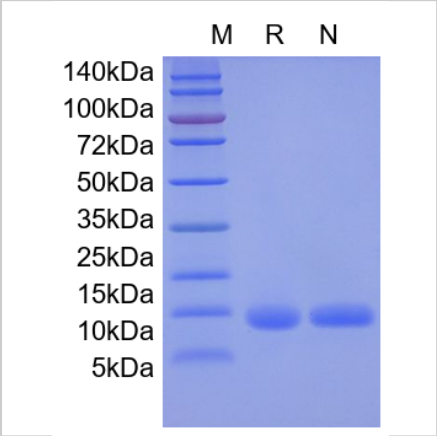
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STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.