

Recombinant Murine Interleukin-13

#R00226

Size: 10 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

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 has been implicated as a key factor in asthma, allergy, atopy and inflammatory response, establishing the protein as a valuable therapeutic target. Human, mouse and rat IL-3 share low homology, but have cross species activity.

AA Sequence

MPVPRSVSLPLTLKELIEELSNITQDQTPLCNGSMVW
SVDLAAGGFCVALDSLNTNISNCNAIYRTQRILHGLCNR
KAPTTVSSLPDTKIEVAHFITKLLSYTKQLFRHGPF

Reconstitution

We recommend that this vial be briefly centrifuged prior

to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	P20109
GeneID	16163
Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 12.3 kDa, a single non-glycosylated polypeptide chain containing 111 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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.
Physical	Sterile Filtered White Lyophilized

Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4.
Endotoxin	Less than 1 EU/μg of rMuL-13 as determined by LAL method.