

Recombinant Rhesus Macaque Interleukin-5

#R00203

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

Through binding to the IL-5 receptor, IL-5 stimulates B cell growth and increases immunoglobulin secretion. It is also a key mediator in eosinophil activation. Interleukin-5 has long been associated with the cause of several allergic diseases including allergic rhinitis and asthma. IL-5 is a 115-amino acid (in rhesus macaque, 133 in the murine) -long TH2 cytokine that is part of the hematopoietic family. Unlike other members of this cytokine family (namely IL-3 and GM-CSF), this glycoprotein in its active form is a homodimer.

AA Sequence

IPTEIPASALVKETLALLSTHRTLIIANETLRIPVPVHKN
HQLCTEEIFQGIGTLESQTVQGGTVERLKFKNLSLIKKY
IGGQKKKCGEERRRVNQFLDYLQEFLGVMNTEWIIIES

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

Synonyms	Eosinophil differentiation factor, TRF
Accession	P48093
GeneID	710622
Unigene	Mmu.3362.
Species	Rhesus
Source	Escherichia coli.
Molecular Weight	Approximately 26.1 kDa, a disulfide-linked homodimer of two 115 amino acid polypeptide chains.
Purity	> 98 % 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 5 ng/ml,

	corresponding to a specific activity of $> 2.0 \times 10^5$ IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4, with 5 % Trehalose.
Endotoxin	Less than 0.1 EU/ μ g of rRhIL-5 as determined by LAL method.