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IL 5 Rhesus Macaque

Catalog #:CYPS-779

For research use only.

Description:IL5 Rhesus Macaque Recombinant produced in E.Coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide protein containing 2x115 amino acids chains and having a total molecular mass of 26.1kDa.The IL-5 Rhesus Macaque is purified by proprietary chromatographic techniques.

Synonyms: Interleukin-5, IL-5, Eosinophil differentiation factor, T-cell replacing factor, TRF, IL5.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:IPTEIPASAL VKETLALLST HRTLLIANET LRIPVPVHKN HQLCTEEIFQ GIGTLESQTV QGGTVERLFK NLSLIKKYIG GQKKKCGEER RRVNQFLDYL QEFLGVMNTE WIIES.

Purity: Greater than 97.0% as determined by HPLC and SDS-PAGE.

Formulation:
Lyophilized from a 0.2

Stability:
Lyophilized IL-5 Rhesus Macaque althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL5 Rhesus Macaque should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Interleikin-5 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Introduction:
The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.

Biological Activity:
The ED50 as determined by the dose-dependent stimulation of TF1 cells is less than 4ng/ml, corresponding to a specific activity of >2.5

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