

Rev03  
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**DATASHEET**

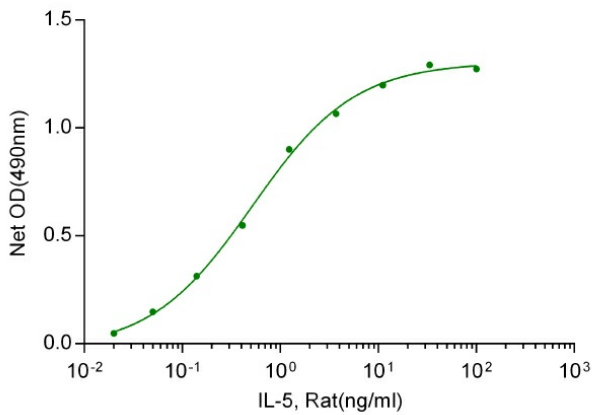
# IL-5, Rat

Cat. No.: Z03093

## Product Introduction

<b>Species</b>	Rat
<b>Protein Construction</b>	IL-5 (Met20-Val132) Accession # Q08125
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 0.4 ng/ml, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 2.5 × 10 <sup>6</sup> units/mg.
<b>Expression System</b>	E. coli
<b>Apparent Molecular Weight</b>	~26 kDa, on SDS-PAGE under non-reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against 20 mM Tris, pH 8.5.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples



ED<sub>50</sub> < 0.4 ng/mL, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 2.5 × 10<sup>6</sup> units/mg.

## Background

**Target Background :** Interleukin-5 (IL-5), produced by mast cells, T cells and eosinophils, is responsible for the activities attributed to eosinophil differentiating factor, B cell growth factor II and T cell-replacing factor (TRF). It can increase production and mobilization of eosinophils and CD34+ progenitors from the bone marrow. IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release.

**Synonyms :** IL5; EDF; BCDFII; TRF

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**