

**Datasheet for 010-001-V42-1000****rMouse IL-5 Protein****Overview**

<b>Description:</b>	Mouse Interleukin-5 Recombinant Protein - 010-001-V42-1000
<b>Item No.:</b>	010-001-V42-1000
<b>Size:</b>	1 mg
<b>Origin:</b>	Mouse
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Interleukin-5 (IL-5) is a hematopoietic growth factor expressed in Th2, mast cells and eosinophils. IL-5 acts through its receptor, the IL-5 receptor (IL-5R) and is involved in B cell growth and eosinophil activation. IL-5 has been shown to be and is regulated by GATA-3, in addition to other transcription factors. Human and mouse IL-5 are cross-reactive. Recombinant mouse IL-5 is a non-glycosylated, disulfide-linked homodimer, containing two 113 amino acid chains, with a total molecular weight of 26.2 kDa.
<b>Synonyms:</b>	EDF, B-cell growthfactor II (BCDFII), Cytotoxic T-lymphocyte inducer, Eosinophil differentiation factor, T-cell replacing factor (TRF)
<b>Species of Origin:</b>	Mouse
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	IL5
<b>Purity/Specificity:</b>	Interleukin-5 purity was determined to be greater than 97% as determined by HPLC and by reducing and non-reducing SDS-PAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P04401</a></li></ul>

## Application Details

<b>Application Note:</b>	Interleukin-5 Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-Interleukin-5 in immunological assays. Lyophilized in 20 mM sodium bicarbonate, pH 9.0.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the dose-dependent induction of TF-1 cell proliferation and is typically less than 2 ng/mL.

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	See application note.
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	1.0 mL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Disclaimer

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