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Datasheet for 009-001-B92

IL-3 Recombinant Human Protein

Overview

Description:	IL-3 Recombinant Human Protein - 009-001-B92
Item No.:	009-001-B92
Size:	10 µg
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Interleukin-3 (IL-3) is a cytokine produced by activated T-cells and mast cells that is active on a broad range of hematopoietic cells and in the nervous system and appears to be important in several chronic inflammatory diseases. Recombinant Human IL-3 produced in E. coli is a single, non-glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15,000 Daltons.
Synonyms:	Interleukin-3 cytokine, IL-3, Multipotential colony-stimulating factor, Hematopoietic growth factor, P-cell-stimulating factor, Mast cell growth factor, MCGF
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	IL3
Purity/Specificity:	Purity was determined to be greater than 95% as determined by analysis by RP-HPLC and by reducing and non-reducing SDS-PAGE, against known standard.
Relevant Links:	• NCBI - 4E6EEURP015 • UniProtKB - P08700

Application Details

Tested Applications:	SDS-PAGE
Application Note:	IL-3 protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-IL-3 in immunological assays. Buffer formation: 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Biological Activity: Human IL-3 is fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of TF-1 cells is less then 0.1 ng/ml. Endotoxin Level: Measured by LAL is <0.01ng/µg or <0.1EU/µg.

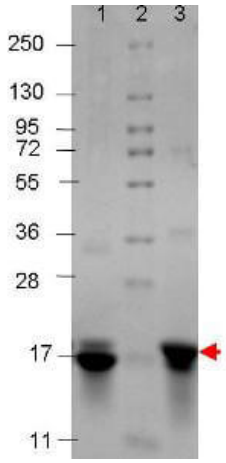
Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	See application note.
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	10µl (10-100µl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

SDS-PAGE shows bands corresponding to IL-3 (1µg) in lane 1 (non-reduced) and lane 3 (reduced, arrowhead). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.

Disclaimer

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