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Datasheet for ABIN1019716 IL-3 Protein (AA 20-152)

2 Images



## Overview

Quantity:	100 µg
Target:	IL-3
Protein Characteristics:	AA 20-152
Origin:	Human
Source:	Tobacco (Nicotiana benthamiana)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Western Blotting (WB), Cell Culture (CC)
Product Details	
Sequence:	HHHHHHHAP MTQTTSLKTS WVNCSNMIDE IITHLKQPPL PLLDFNNLNG EDQDILMENN LRRPNLEAFN RAVKSLQNAS AIESILKNLL PCLPLATAAP TRHPIHIKDG DWNEFRRKLT FYLKTLENAQ AQQTTLSLAI F
Specificity:	Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by immune-detection with specific IL-3 antibody.
Characteristics:	Molecular Formula: C718H1132N210O207S5 Isoelectric Point: 7.34 Extinction Coefficient: E 0.1 % (1g/L) = 0.780 (A 280 nm)
Endotoxin Level:	< 0.04 EU/µg protein (LAL method)

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## Target Details

Target:	IL-3
Alternative Name:	Interleukin-3 (IL-3 Products)
Background:	Synonyms: Hematopoietic growth factor Mast cell growth factor (MCGF), Multipotential colony-
	stimulating factor (MULTI-CSF)
	IL-3 is a potent growth factor involved in a variety of cell activities such as cell growth,
	differentiation and apoptosis. It takes part of several biological responses such as proliferation,
	and differentiation of a broad range of hematopoietic progenitor cells into erythrocytes,
	granulocytes, monocytes, megakaryocytic and mast cells. IL-3 also induces the production of
	several enzymes involved in cellular metabolism, differentiation, and DNA/RNA metabolism. IL-
	3 is produced by activated T-lymphocytes, keratinocytes, NK-cells, mast cells, endothelial cells
	and monocytes. The biological activity of IL-3 is mediated through specific cell surface receptor
	that is composed of alpha and beta subunits. Alpha subunit is responsible for the binding and
	beta subunit transmits signals across the plasma membrane, il-3 is known to activate three
	signalling pathways: JAK/STAT, RAS/RAF/MAP kinase, and the PI-3kinase/PKB pathways. IL-3
	is also implicated in the pathogenesis of several diseases such as asthma, athero sclerosis and
	multiple sclerosis. Recombinant protein has been widely used in clinical practice, in the
	treatment of leukemia and as therapy for patients with bone marrow deficiency function.
Molecular Weight:	16.2 kDa
UniProt:	P08700
Pathways:	JAK-STAT Signaling, Regulation of Carbohydrate Metabolic Process, Autophagy

## Application Details

	electrophoresis and the gel was stained with coomassie blue.
	impurities. Animal free product. The protein was resolved by SDS polyacrylamide gel
	sequential chromatography (FPLC). This product contains no animal-derived components or
	terminal end, is produced by transient expression in non-transgenic plants and is purified by
	Nicotiana benthamiana. Recombinant human Interleukin-3 contains a 8-His-tag at the N-
	apparent molecular mass of 18-22 kDa in SDSPAGE. Human recombinant protein expressed in
	of 16.2 KDa, however as result of glycosylation, the recombinant protein could migrate with an
	of P08700 IL3_HUMAN) and a His-tag at the N-terminal end. It has a predicted molecular mass
Comment:	rhuman Interleukin-3 is a glycosylated polypeptide chain containing 133 amino acids (20 - 152

Restrictions:

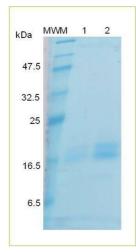
For Research Use only

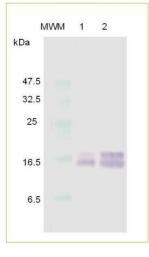
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## Handling

Format:	Lyophilized
Reconstitution:	Lyophilized protein should be reconstituted in water to a concentration of 50 ng/µL. Optimal concentration should be determined for specific application and cell lines. Optimal concentration should be determined for specific application and cell lines.
Buffer:	PBS 1X buffer pH 7.4
Storage:	4 °C

#### Images





#### SDS-PAGE

**Image 1.** SDS-PAGE analysis of recombinant IL-3. Samples were loaded in 15 % SDS-polyacrylamide gel and stained with Coomassie blue. Lane MWM: Molecular weight marker (kDa), lane 1: contains 0.15 µg and lane 2: contains 0.3 µg of recombinant IL-3.

#### Western Blotting

**Image 2.** Western Blot analysis of recombinant IL-3. Lane MWM: Molecular weight marker (kDa), lane 1: contains 0.15  $\mu$ g and lane 2: contains 0.3  $\mu$ g of recombinant IL-3.

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