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Datasheet for ABIN1719791

**IL-7 Protein (AA 26-177) (His tag)**

## Overview

Quantity:	50 µg
Target:	IL-7 (IL7)
Protein Characteristics:	AA 26-177
Origin:	Human
Source:	Tobacco (Nicotiana benthamiana)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-7 protein is labelled with His tag.
Application:	Western Blotting (WB), Cell Culture (CC)

## Product Details

Sequence:	HHHHHHHHDC DIEGKDQKQY ESVLMVSIQ LLDQMKEIGS NCLNNEFNFF KRHICDANKE GMFLFRAARK LRQFLKMNST GDFDLHLLKV SEGTTILLNC TGQVKGRKPA ALGEAQPTKS LEENKSLKEQ KKLNDLCFLK RLLQEIKTCW NKILMGTKHE
Characteristics:	Human recombinant protein expressed in Nicotiana benthamiana. It is produced by transient expression in non-transgenic plants and is purified by sequential chromatography (FPLC). This product contains no animal-derived components or impurities. Animal Free product.
Purification:	≥97%
Endotoxin Level:	< 0.04 EU / µg protein (LAL method)

## Target Details

Target:	IL-7 (IL7)
Alternative Name:	IL-7 ( <a href="#">IL7 Products</a> )
Background:	Recombinant human TGF- $\beta$ 2 is a 27.08 kDa protein composed of two identical 118 amino acid peptide chains linked by a single disulfide bond. Transforming growth factor- $\beta$ is a family of five related cytokines that have been shown on a wide variety of normal and neoplastic cells, indicating the importance of these homo-dimer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF- $\beta$ (TGF- $\beta$ 1, TGF- $\beta$ 2 and TGF- $\beta$ 3) signal through the same receptor and elicit similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.
Molecular Weight:	rHuman Interleukin 7 is a glycosylated polypeptide chain containing 160 amino acids (26-177 of P13232IL7_HUMAN), fused to His tag at N-terminal. rHumanIL-7 migrate at approximately 18 - 25 kDa by SDS-PAGE.
UniProt:	<a href="#">P13232</a>
Pathways:	<a href="#">JAK-STAT Signaling</a>

## Application Details

Comment:	Ext. Coeff. Abs (280nm) 0.1% (=1g/l) =0.398
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Lyophilized protein should be reconstituted in water following instructions of batch Quality Control sheet. At higher concentrations the solubility may be reduced and multimers generated. Optimal concentration should be determined for specific application.
Buffer:	10 mM PBS buffer PH 7.5 and 0.2 M NaCl
Storage:	4 °C/-20 °C
Storage Comment:	This lyophilized preparation is stable at 2-8 °C for short term, long storage it should be kept at -20 °C. Reconstituted protein should be stored in working aliquots at -20 °C. Repeated freezing and thawing is not recommended.