

Datasheet for ABIN7013058
IL-2 Protein (AA 21-169) (His tag)



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Overview

Quantity:	100 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-169
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-2 protein is labelled with His tag.

Product Details

Purpose:	Mouse IL-2 Protein, His Tag
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL-2 (IL2 Products)
Background:	Interleukin-2 (IL-2) is an interleukin, a type of cytokine immune system signaling molecule, which is a leukocytotropic hormone that is instrumental in the body's natural response to microbial infection and in discriminating between foreign (non-self) and self. IL-2 mediates its effects by binding to IL-2 receptors, which are expressed by lymphocytes, the cells that are

Target Details

responsible for immunity. Mature human IL-2 shares 56 % and 66 % aa sequence identity with mouse and rat IL-2, respectively. Human and mouse IL-2 exhibit crossspecies activity. The receptor for IL-2 consists of three subunits that are present on the cell surface in varying preformed complexes. IL-2 is also necessary during T cell development in the thymus for the maturation of a unique subset of T cells that are termed regulatory T cells (T-regs). After exiting from the thymus, T-Regs function to prevent other T cells from recognizing and reacting against "self antigens", which could result in "autoimmunity". T-Regs do so by preventing the responding cells from producing IL-2. Thus, IL-2 is required to discriminate between self and non-self, another one of the unique characteristics of the immune system.

Molecular Weight:	19.1 kDa
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Pathways:	JAK-STAT Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Activated T Cell Proliferation
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Buffer:	PBS, pH 7.4
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Storage:	-20 °C
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