

Datasheet for ABIN2018091

CD25 Protein (AA 22-213) (His tag)



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Overview

Quantity:	50 µg
Target:	CD25 (IL2RA)
Protein Characteristics:	AA 22-213
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD25 protein is labelled with His tag.

Product Details

Characteristics:	Determined by its ability to increase the proliferation effect of IL-2 in murine CTLL-2 cells. In the presence of 1 ng/mL of recombinant IL-2, ED50 for this effect is < 1.5 µg/mL. AA 22-213, expressed with N-terminal 8xHis
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	CD25 (IL2RA)
Alternative Name:	Interleukin-2 Receptor Alpha(IL-2 R Alpha) (IL2RA Products)
Background:	Interleukin-2 receptor (IL-2R) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to the cytokine IL-2. The IL-2R is

Target Details

made up of 3 subunits - alpha , beta and gamma . The alpha and beta chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the gamma-chain, along with the beta subunit. The beta and gamma chains of the IL-2R are members of the type I cytokine receptor family. IL-2R has a high binding affinity to IL-2 and is expressed by antigen-activated T lymphocytes (T cells). IL-2 R alpha is also known as CD25, p55, and Tac (activated T cell) antigen. Recombinant Human Interleukin-2 Receptor alpha (IL-2 R alpha), His produced in HEK 293 cells is a polypeptide chain containing 205 amino acids. A fully biologically active molecule, rhIL-2 R alpha has a molecular mass of 42 kDa analyzed by reducing SDS-PAGE.

Synonyms: soluble IL-2 receptor, TAC-antigen, CD25 antigen

Molecular Weight: 42 kDa, observed by reducing SDS-PAGE.

UniProt: [P01589](#)

Pathways: [JAK-STAT Signaling](#), [Growth Factor Binding](#), [Activated T Cell Proliferation](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant Human Interleukin-2 Receptor alpha remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Interleukin-2 Receptor alpha should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months