

IL-2-FC recombinant protein

Catalog No :	YD3088
Reactivity :	Human;
Purity :	>90% as determined by SDS-PAGE
Gene Name :	IL2
Protein Name :	Interleukin-2 (IL-2) (T-cell growth factor) (TCGF) (Aldesleukin)
Sequence :	Amino acid:21-153,with FC tag.
Human Gene Id :	3558
Human Swiss Prot No :	P60568
Formulation :	Phosphate-buffered solution
Source :	Mammalian cells
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Function :	<p>Cytokine produced by activated CD4-positive helper T-cells and to a lesser extend activated CD8-positive T-cells and natural killer (NK) cells that plays pivotal roles in the immune response and tolerance (PubMed:6438535). Binds to a receptor complex composed of either the high-affinity trimeric IL-2R (IL2RA/CD25, IL2RB/CD122 and IL2RG/CD132) or the low-affinity dimeric IL-2R (IL2RB and IL2RG) (PubMed:16293754, PubMed:16477002). Interaction with the receptor leads to oligomerization and conformation changes in the IL-2R subunits resulting in downstream signaling starting with phosphorylation of JAK1 and JAK3 (PubMed:7973659). In turn, JAK1 and JAK3 phosphorylate the receptor to form a docking site leading to the phosphorylation of several substrates including STAT5 (PubMed:8580378). This process leads to activation of several pathways including STAT, phosphoinositide-3-kinase/PI3K and mi</p>
Subcellular Location :	Secreted.



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