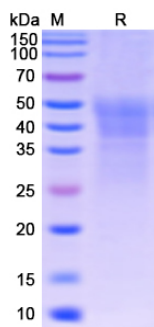


Product Details

Summary

English name	Recombinant Human IL2RA protein ,C- His Tag
Purity	>90% as determined by SDS-PAGE
Endotoxin level	< 1.0 EU per µg of the protein as determined by the LAL method.
Construction	A DNA sequence encoding the human IL2RA(Met1-Gln240) was fused with the C-terminal His Tag
Accession #	P01589
Host	Mammalian cells
Species	Homo sapiens (Human)
Predicted Molecular Mass	27.20 kDa
Formulation	Lyophilized. Lyophilized from PBS pH7.4 , 1mM EDTA, 4%trehalose , 1% mannitol.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.
Stability &Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.
Reconstitution	Reconstitute in sterile water for a stock solution.

SDS-PAGE image



Background

Background	Interleukin-2 receptor subunit alpha (IL2RA) is also known as IL-2R subunit alpha, IL-2-RA, IL2-RA, TAC antigen, p55, CD antigen CD25, is a type I transmembrane
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glycoprotein. IL2RA is expressed on activated T cells and regulatory T cells, and is capable of binding IL2 with low affinity by itself. However, a ligand-induced high affinity heterotrimeric receptor complex is produced when IL2RA is associated non-covalently with the IL2 receptor beta and gamma chain, and subsequently initiates the intracellular signal pathways such as MAPK or JAK/STAT. On dendritic cells (DC), CD25 has been previously regarded as an activation marker, while both murine and human DC can express CD25, they do not express the beta-chain of the IL-2 receptor, which is indispensable for the execution of IL-2 signaling.

Alternative Names

IL2RA,CD25,p55,IL2-RA,IL-2-RA

References

Li, Ran, Xu, Luo, Song, Xu, Zhang (2020) Role of CD25 expression on prognosis of acute myeloid leukemia: A literature review and meta-analysis PloS one 15(7) e0236124

Frontier progress

The gene expression for interleukin-2 receptor subunit alpha (CD25/IL2RA) is frequently altered in adults with acute myeloid leukemia (AML). Increasing evidence indicates that the elevated expression of CD25 may be correlated with poor survival for AML patients. Thus, we performed this meta-analysis to further evaluate the prognostic value of elevated CD25 in AML. Eligible studies were gathered by searching on PubMed, Web of Science, and Embase. Using the R language 3.6.0 software, Pooled hazard ratios (HRs) with their corresponding 95% confidence intervals (CIs) of overall survival (OS) and disease-free survival (DFS)/relapse-free survival (RFS)/event-free survival (EFS) for total and subgroup analyses were calculated to investigate the association of elevated CD25 and outcomes of AML patients. Ten studies with a total of 1640 participants were enrolled in this meta-analysis. Pooled HRs suggested that overexpression of CD25 predicted poor outcomes on both OS (HR = 2.27, 95%CI 1.95-2.64) and DFS/RFS/EFS (HR = 1.77, 95%CI 1.44-2.17) in overall population. Subgroup analyses stratified by ethnicity, AML subtype, cut-off value, statistical methodologies and detection method draw similar results. Our meta-analysis indicates that elevated CD25 expression is a poor prognostic factor for AML patients. Considering limited number of samples, further relevant studies are warranted.