



## Human CD25 (IL-2R alpha) Recombinant Protein, eBioscience™

<b>Product Details</b>		
Size	100 μg	
Species	Human	
Expression system	Insect cells	
Amino acid sequence	Human CD25, amino acids Glu22-Gln240 (Accession # NP_000408.1)	
Molecular weight	24.8 kDa	
Class	Recombinant	
Туре	Protein	
Purity	>98% by SDS-PAGE and HPLC	
Endotoxin concentration	<0.1 ng/μg	
Activity	ED50 = 0.5-1.5 $\mu$ g; determined by the dose-dependent proliferation of CTLL-2 cells stimulated with 1 ng/mL IL-2.	
Conjugate	Unconjugated	
Form	Lyophilized	
Storage conditions	-20°C	

Applications	Tested Dilution	Publications
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-

## **Product Specific Information**

Description: The human soluble IL-2 receptor alpha chain (sIL-2Ra) is generated by proteolytic cleavage of the cell-surface bound receptor on activated T cells. The IL-2Ra (also known as CD25) is expressed by early progenitors of the T and B lineage, as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 with low affinity. However, association with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) results in formation of the high affinity IL-2R. CD25 plays a role in lymphocyte differentiation and activation/proliferation. sIL-2Ra has been detected in the serum of patients with autoimmune disease and leukemia. Reports have demonstrated that addition of sIL-2Ra can inhibit IL-2-mediated signaling and enhance Th17 responses.

Applications Reported: Recombinant human soluble IL-2Ra is biologically active and can enhance proliferation of mouse CTLL-2 cells stimulated with 1 ng/mL IL-2.

Applications Tested: The ED50 of this protein, as determined by increased proliferation of mouse CTLL-2 cells stimulated with 1 ng/mL IL-2, is  $0.5-1.5 \mu g/mL$ .

Source: Insect cells (amino acids Glu22-Gln240; accession #: NP\_000408.1).

Bioactivity: The ED50 of this protein, as determined by increased proliferation of mouse CTLL-2 cells stimulated with 1 ng/mL IL-2, is  $0.5-1.5 \mu g/mL$ .

Endotoxin: Less than 0.1 ng/ug cytokine as determined by the LAL assay. Purity: >98% as determined by SDS-PAGE and HPLC.

Molecular Weight: 24.8 kDa.

Storage and handling: For best recovery, quick spin vial prior to opening. Reconstitute in 1X PBS, pH 7.2 to a concentration of 0.1-1.0 mg/mL. Do not vortex. Use in sterile environment. Store lyophilized protein at less than or equal to -20°C. Reconstituted protein solution can be stored with carrier-protein (e.g., 0.1% BSA) at less than or equal to -20°C.

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