

## Product datasheet for DA3559X

### Interleukin-2 / IL2 Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Interleukin-2 / IL2 human protein, 50 µg
Species:	Human
Expression Host:	E. coli
Predicted MW:	15.4 kDa
Concentration:	lot specific
Purity:	>97% > 98% by SDS-PAGE and Silver staining
Buffer:	Presentation State: Purified State: Lyophilized protein, without buffer and stabilizer
Bioactivity:	Biological: The ED50 as determined by the dose-dependent stimulation of murine CTLL-2 cells is 0.1-0.5 ng/ml. Specific: = 1 x 10e7 units/mg
Endotoxin:	< 0.1 ng per µg of IL-2
Reconstitution Method:	100 mM acetic acid to a concentration of 100 ng/ml. This solution can be diluted into other buffered solutions or stored at -20°C for future use.
Preparation:	Lyophilized protein, without buffer and stabilizer
Storage:	Store lyophilized product at 2 - 8 °C for up to one month or at -20°C for longer. Following reconstitution store in aliquots at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
RefSeq:	<a href="#">NP_000577</a>
Locus ID:	3558
UniProt ID:	<a href="#">P60568</a>
Cytogenetics:	4q27
Synonyms:	IL-2, TCGF



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<b>Summary:</b>	<p>This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9, IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4+ and CD8+ T lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and IL7. The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. [provided by RefSeq, Sep 2020]</p>
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Allograft rejection, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, T cell receptor signaling pathway, Type I diabetes mellitus