

Product Datasheet

Recombinant Human IL-21 (orb1921844)

Description	Interleukin (IL) -21 is a member of the common gamma chain (γ c) family of cytokines and is expressed by multiple immune cell types, with activated CD4+ T cells, including T follicular helper (TFH) cells and natural killer (NK) T cells, being the major sources of this cytokine. The biological functions of IL-21 are mediated by binding to its corresponding receptor, IL-21R. IL-21R is expressed by a wide range of immune cells, including T and B cells, NK cells, DCs and macrophages as well as non-immune cells, including epithelial cells and keratinocytes. The IL-21/IL-21R signaling activates the JAK1/3-STAT, MAPK and PI3K signaling pathway. IL-21 has been proven to play an important role in the immune system, for example, by promoting proliferation and the development of TFH and Th17 cells, balancing helper T cell subsets, inducing B cell generation and differentiation into plasma cells, and enhancing the production of immunoglobulin. IL-21 levels are increased in the peripheral blood and tissues of patients with systematic lupus erythematosus, rheumatoid arthritis, type 1 diabetes, immune thrombocytopenia, primary Sjogren's syndrome, autoimmune thyroid disease and psoriasis.
Endotoxins	≤ 10 EU/mg
Form/Appearance	Lyophilized Powder
Storage	Use a manual defrost freezer and avoid repeated freeze - thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 6 months, -20 to -79°C under sterile conditions after reconstitution.
Note	For research use only
Application notes	Application Notes: For research use only. Minimum Sample Size: 50 μ g/vial
Purity	$\geq 95\%$
Source	CHO Cell
MW	83.77 kDa

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Uniprot ID	Q9HBE4
Entrez	59067
Expiration Date	6 months from date of receipt.

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