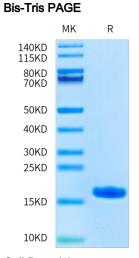
GMP Human IL-21

Description

Cat. No. GMP-CKS-HE021

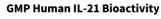
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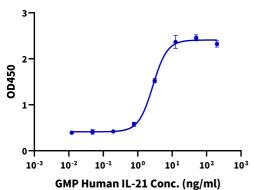
Description	
Source	Recombinant GMP Human IL-21 is expressed from E.coli with without tag.
	It contains GIn32-Ser162.
Accession	Q9HBE4-1
Molecular Weight	The protein has a predicted MW of 15.4 kDa same as Bis-Tris PAGE result.
Endotoxin	≤ 0.01 EU per μg by the LAL method.
Purity	≥ 95% as determined by SEC-HPLC.
Formulation and Storage	
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before Iyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	The product is shipped with ice bag. Store it immediately at -20°C±5°C upon arrival20°C±5°C for 36 months in lyophilized state.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Interleukin- (IL-) 21 is a pleiotropic cytokine that regulates the activity of both innate and specific immunity. Indeed, it costimulates T and natural killer (NK) cell proliferation and function and regulates B cell survival and differentiation and the function of dendritic cells. In addition, IL-21 exerts divergent effects on different lymphoid cell leukemia and lymphomas, as it may support cell proliferation or on the contrary induce growth arrest or apoptosis of the neoplastic lymphoid cells.
Assay Data	



GMP Human IL-21 on Bis-Tris PAGE under reduced condition.

Cell Based Assay





Measured by its activity to enhance IFN-gamma secretion in NK-92 human natural killer lymphoma cells. The ED50 for this effect is ≤ 8 ng/mL. The specific activity of GMP Human IL-21 is $> 1 \times 10^{5}$ U/mg (QC Test).