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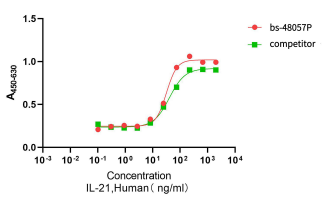
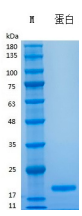
Recombinant human IL-21 protein (Active, CHO)

Catalog Number:	bs-48057P
Species:	Human
AA Seq:	25-162/162
Predicted MW:	15.9
Tags:	Tag free
Activity:	Yes
Endotoxin:	⩽10 EU/mg
Purity:	⩾ 95% as determined by SDS-PAGE.
Purification:	AC
Form:	Lyophilized
Storage:	PBS, 5% Mannitol and 0.01% Tween 80 (pH=7.4) Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 36 months at -20°C to -80°C in lyophilized state. 6 months at -20°C to -80°C under sterile conditions after reconstitution. 7-10 days at 2°C to 8°C under sterile conditions after reconstitution.
Background:	IL-21 is a typical family I cytokine with broad pleiotropic actions and is primarily produced by T follicular helper cells, Th17, and natural killer T cells in response to antigenic stimulation. Il-21 generally enhances antigen-specific responses of immune cells. It controls the activation, proliferation, differentiation, cytotoxicity, and survival of various target immune cells. Additionally, IL-21 promotes the anti-tumor activity of CD8+ T-cells and NK cells. IL-21 elicits its effect through binding to IL-21R, which also contains the gamma chain found in other cytokine receptors such as IL-2, IL-4, IL-7, IL-9 and IL-15. IL-21/IL-21R interaction triggers a cascade of events, which includes activation of the tyrosine kinases JAK1 and JAK3, followed by activation of the transcription factors STAT1 and STAT3. Recombinant Human IL-21 is a 15.4 kDa protein consisting of 132 amino acid residues.

VALIDATION IMAGES



Measured by its ability to enhance IFN-gamma secretion in NK-92 human natural killer lymphoma cells. The ED50 for this effect is ⩽20



The purity of the protein is greater than 95% as determined by reducing SDS-PAGE.

ng/mL.