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32-12203: Mouse Interleukin-21

 Gene :
 II21

 Gene ID :
 60505

 Uniprot ID :
 Q9ES17

Alternative Name:

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 15.1 kDa (130 aa)

Interleukin 21 (IL-21) is a member of the common-gamma chain family of cytokines that are involved in immunoregulation. IL-21 is normally expressed by activated CD4+ T cells. The IL-21 receptor (IL-21R) activates the JAK/STAT signaling pathway and is expressed on T, B, and natural killer (NK) cells. Within the B cell lineage, IL-21 is a switch factor regulating IgG1 and IgG3 antibody production. IL-21 also cooperates with interleukin 4 (IL-4) for the production of multiple antibody classes in B cells. IL-21 has pleiotropic effects on the proliferation, differentiation, and effector functions of B, T, NK, and dendritic cells.

Product Info

Amount : $10 \mu g / 100 \mu g$

Purification: Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 20 mM sodium

Content: bicarbonate, pH 8.5

Sterile water at 0.1 mg/mL

Storage condition: Store at -20°C

Amino Acid: MHKSSPQGPD RLLIRLRHLI DIVEQLKIYE NDLDPELLSA PQDVKGHCEH AAFACFQKAK

LKPSNPGNNK TFIIDLVAQL RRRLPARRGG KKQKHIAKCP SCDSYEKRTP KEFLERLKWL

LQKMIHQHLS

Application Note

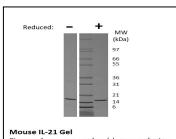
Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

Biological Activity was determined by Mouse thymocyte proliferation with costimulation at <=10 ng/mL; $>=1.0 \times 10^5$ units/mg . Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80° C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



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Mouse IL-21 Gel Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-21 is predicted to have a MW of 15.1 kDa.

