Recombinant Caprine IL-21 (N-His)

Information

Gene ID	100861248
Accession #	A0A452FS06
Alternate Names	Caprine/Goat IL-21, IL21, Interleukin-21
Source	E.coli
Protein sequence	HKSSFQGQDR LFIRLRQLID IVDQLKNYVN DLDPEFLPAP EDVKRHCERS AFSCFQKVQL KSANNGDNEK IINILTKQLK RKLPPTNAGR RQKHELTCPS CDSYEKKPPK EYLERLKSLI QKMIHQHLS
Tag	N-His
M.Wt	Approximately 20.0 kDa
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. -3 years from date of receipt, -20 to -70°C as supplied.
Concentration	0.8 mg/mL
Formulation	Supplied as a 0.2 μm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Significantly upregulates the transcript levels of IL-2, IL-4, IL-10, IL-17, IFN-γ, and TNF-α in PBMCs; no significant effect on TGF-β transcription.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 90 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/mg as determined by LAL method.

Description

Goat interleukin-21 (Capra hircus Interleukin-21, Goat IL-21) is a secreted cytokine with immunomodulatory activity, belonging to the IL-15/IL-21 family of four-helix bundle cytokines. It is produced mainly by activated CD4+ T cells (especially follicular helper T cells (Tfh), Th17 cells, and NKT cells), is secreted into the extracellular space via an N-terminal 1–17 signal peptide, and acts through the IL-21 receptor complex on target cells (B cells, T cells, NK cells, dendritic cells, etc.). Functionally, goat IL-21 induces IgG1 and IgG3 production by B cells, cooperates with IL-6 to control early Tfh cell generation and germinal center formation, synergizes with IL-15 to promote NK cell proliferation and maturation, synergizes with IL-15/IL-18 to stimulate IFN-γ production by T cells and NK cells, regulates mature B/T cell proliferation, and suppresses dendritic cell activation and maturation in T cell-mediated immune responses.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

