

Recombinant Swine IL21

Cat. No. IL21-103S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Swine IL-21 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Pig
Source	Yeast
Description	IL-21 is a member of the type I cytokine family, which includes IL-2 and IL-15. IL-21 signals through the common gamma-chain and a unique IL-21 receptor. The IL-21 receptor is expressed in cells lymphoid-lineage and regulates the proliferation and differentiation of T and B lymphocytes. Studies suggest that IL-21 is a key component of CD4 T cell help that is required for maintaining the CD8+ T cell responses and inducing B cell antibody response. IL-21 also promotes the development of Th17 and Tfh cells, modulates the cytotoxic activity and survival of NK and CD8+ T cells, and suppresses the maturation of dendritic cells. It is also implicated in the development of autoimmune disease and has antitumor activity.
Form	Lyophilized without carrier protein.
Molecular Mass	Swine IL-21 has a predicted molecular weight of 15.0 kDa.
AA Sequence	HKSSFQGQDR LLIRLRQLID TVDQLKNYVH DLDPELLPAP EDVQRHCEQS AFSCFQKVEL KSANTGDNEK IINVLIKQLK RKLPTNAGR RQKHGLTCPT CDSYEKKPIK EFLERLKS LI QKMIHQHLS

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Purity	>95% as visualized by SDS-PAGE analysis.
Applications	The Swine IL-21 protein can be used in cell culture, as an IL-21 ELISA Standard, and as a Western Blot Control.
Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

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