

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Interleukin-33 (IL33) is a pro-inflammatory protein that shares structural and functional characteristics with the IL1 cytokine family. It binds and signals through the IL1RL1/ST2 receptor, activating NF- κ B and MAP kinases. IL33 induces production of T-helper-2 (Th2) cell related cytokines, including IL4, IL5 and IL13, and exerts multiple inflammation-related bioactivities. It has also been reported that after addition of IL33, the levels of interferon gamma (IFNG) were reduced in polarized mouse Th1 cells.

Catalog Number	1310-33
Product Name	IL33, Murine Recombinant Murine Interleukin-25 Interleukin 33 IL1F11 Nuclear Factor from High Endothelial Venules (NFHEV) Chromosome 9 Open Reading Frame 26 (C9ORF26)
Source	<i>Escherichia coli</i>
MW	~17.5 kDa (158 amino acids)
Sequence	SIQGTSLLTQ SPASLSTYND QSVSFVLENG CYVINVDDSG KDQEQQVLL RYYESPCPAS QSGDGVGKK LMVNMSPKID TDIWLHANDK DYSVELQRGD VSPPEQAFFV LHKKSSDFVS FECKNLPGTY IGVKDNQLAL VEEKDESCNN IMFKLSKI
Accession Number	Q8BVZ5
Purity	>98% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 0.5 ng/ml, corresponding to a specific activity of $>2.0 \times 10^6$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.