

Growth Factor Data Sheet

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

Interferon lambda 1, also known as interleukin 29, belongs to the newly classified type III interferon family. Expression of IFNL1 is seen in a variety of cell types in response to viral infection or treatment with double-stranded RNA. IFNL1 exerts antiviral activity and upregulation of MHC class I antigen expression. It signals through a heterodimeric receptor complex composed of IL10RB and IFNLR1 which activates the JAK-STAT pathway, phosphorylating STAT1, STAT2, and STAT3.

Catalog Number	1160-07
Product Name	IFN-lambda1 (IL29), Human Recombinant Human Interferon lambda 1 IFNL1 Interleukin 29 (IL29)
Source	<i>Escherichia coli</i>
MW	~19.8 kDa (181 amino acids)
Sequence	GPVPTSKPTT TGKGCHIGRF KSLSPQELAS FKKARDALEE SLKLNWSCS SPVFPGNWDL RLLQVRERP V ALEAELALT L KVLAAAAGPA LEDVLDQPLH TLHHILSQLQ ACIQPQPTAG PRPRGRLHHW LHRLQEAPKK ESAGCLEASV TFNLFRLTR DLKYVADGNL CLRTSTHPES T
Accession Number	Q8IU54
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by an anti-viral assay using human HepG2 cells infected with encephalomyocarditis is less than 5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁵ 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.