

# Growth Factor Data Sheet

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

Interferon lambda 3, also known as interleukin 28B, belongs to the newly classified type III interferon family. Expression of IFNL3 is seen in a variety of cell types in response to viral infection or treatment with double-stranded RNA. IFNL3 exerts antiviral activity and up regulation of MHC class I antigen expression. It also plays a role in Toll-like receptor (TLR)-induced antiviral defense. IFNL3 signals through a heterodimeric receptor complex composed of IL10RB and IFNLR1 which activates the JAK-STAT pathway, phosphorylating STAT1, STAT2, and STAT3. In individuals with chronic hepatitis C, the presence of specific polymorphisms near this gene has been associated with an increased response in treatment for the condition with interferon and ribavirin.

<b>Catalog Number</b>	<b>1360-08B</b>
<b>Product Name</b>	<b>IFN-lambda3 (IL28B), Murine</b> Recombinant Murine Interferon Lambda 3 IFNL3 Interleukin 28B (IL28B) Interleukin-28-Beta
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~19.6 kDa (174 amino acids)
<b>Sequence</b>	DPVPRATRLP VEAKDCHIAQ FKSLSPELQ AFKKAKGAIE KRLEKDMRC SSHLISRAWD LKQLQVQERP KALQAEVALT LKVWENINDS ALTTILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLEL SVTSNLFQLL LRDLCVASG DQCV
<b>Accession Number</b>	<a href="#">Q8CGK6</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by an anti-viral assay using human HepG2 cells infected with encephalomyocarditis is less than 30 ng/ml, corresponding to a specific activity of >3.3×10 <sup>4</sup> IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.