

Growth Factor Data Sheet

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

Interferon omega 1 is a member of the type I family of interferons. It is the only functional interferon omega gene in humans; many pseudogenes of interferon omega exist in humans, some of which are functional in non-primate placental mammals. Expression of IFNW1 is seen in leukocytes in response to viral infection or treatment with double-stranded RNA. It stimulates NK cell activity, enhances expression of major histocompatibility complex class I antigens, and inhibits proliferation of lymphocytes stimulated with mitogens or allogeneic cells. It also inhibits proliferation of a variety of tumor cell lines *in vitro*.

Catalog Number	1160-09
Product Name	IFN-omega1, Human Recombinant Human Interferon Omega 1 IFNW1 IFN-Alpha-like
Source	<i>Escherichia coli</i>
MW	~20.0 kDa (172 amino acids)
Sequence	CDLPQNHGLL SRNTLVLLHQ MRRISPFLCL KRRRDFRFPQ EMVKGSQQLQK AHVMSVLHEM LQQIFSLFHT ERSSAAWNMT LLDQLHTGLH QQLQHLETCL LQVVGEGESA GAISSPALTL RRYFQGIRVY LKEKKYSDCA WEVVRMEIMK SLFLSTNMQE RLRKDRDLG SS
Accession Number	P05000
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a chemotaxis bioassay using human TF-1 cells is less than 0.01 ng/ml, corresponding to a specific activity of >1.0 × 10 ⁸ 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.