

Growth Factor Data Sheet

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

Interferon alpha2 belongs to the type I interferon family and is encoded by the IFNA2 gene in humans. Like the other IFN-alpha proteins, it is expressed in leukocytes and plays an important role in inducing non-specific resistance against a broad range of viral infections. Studies have shown the ability of recombinant IFN-alpha2B to decrease hepatic metastases from intraocular melanoma. It used to treat high-risk cutaneous melanomas, but is associated with many contraindications. IFNA2 is one of 13 subtypes of interferon alpha found in humans, clustered on chromosome 9. It contains four highly conserved cysteine residues forming two disulfide bonds, one of which is necessary for biological activity.

Catalog Number	1160-04Y
Product Name	IFN-alpha2B (<i>S. cerevisiae</i>), Human Recombinant Human Interferon, alpha 2B IFNA2 B-cell Interferon
Source	<i>Escherichia coli</i>
MW	~19.3 kDa (165 amino acids)
Sequence	CDLPQTHSLG SRRTLMLLAQ MRRISLFSC LKDRHDFGFPQ EEFGNQFQKA ETIPVLHEMI QQIFNLFSTK DSSAAWDETL LDKFYTELYQ QLNDLEACVI QGVGVTEPL MKEDSILAVR KYFQRITLYL KEKKYSPCAW EVVRAEIMRS FSLSTNLQES LRSKE
Accession Number	P01563
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The specific activity determined by an anti-viral assay is no less than 1.6×10^8 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.