

Growth Factor Data Sheet

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

Leukemia Inhibitory Factor (LIF) is a lymphoid factor which promotes long-term maintenance of embryonic stem cells by suppressing spontaneous differentiation. LIF binds to the specific LIFR- α , which forms a heterodimer containing a GP130 signal transducing subunit. LIF is normally expressed in the trophectoderm of the developing embryo and has a number of other activities including cholinergic neuron differentiation, control of stem cell pluripotency, bone and fat metabolism, mitogenesis of certain factor dependent cell lines and promotion of megakaryocyte production *in vivo*. While LIF is not required for human embryonic stem cell cultures, it is commonly used for mouse embryonic stem cell cultures.

Catalog Number	1340-01
Product Name	Acidic FGF (FGF1), Murine Recombinant Murine Fibroblast Growth Factor 1 FGF1, aFGF Acidic FGF Endothelial cell growth factor
Source	<i>Escherichia coli</i>
MW	~15.9 kDa (141 amino acids)
Sequence	Click here to enter text.
Accession Number	P61148
Purity	>96% by SDS-PAGE and HPLC analyses
Biological Activity	FNLPLGNYKK PKLLYCSNGG HFLRILPDGT VDGTRDRSDQ HIQLQLSAES AGEVYIKGTE TGQYLAMDTE GLLYGSQTPN EECLFLERLE ENHYNTYTSK KHAEKNWFGV LKKNNGSCKRG PRTHYGQKAI LFLPLPVSSD
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.