

LIF, Human, Recombinant

Cat. No. : PCK074

General Information

Synonyms	Differentiation-stimulating factor;D factor;Melanoma-derived LPL inhibitor (MLP_x0002_L I);Interleukin 6 family cytokine
Species	Human
Expression host	E.coli
Sequence	SPLPITPVNATCAIRHPCHNNLMNQIRSQAQLNGSANALFILYYTAQGEFPNNLDKLCGPNV TDFPPFHANGTEKAKLVELYRIVVYLGTS LGNITRDQKILNPSALSLHSKLNATADILRGLLSNV LCRLCSKYHVGHVDTVYGPDTSGKDV FQKKKLG CQLLGKYKQIIAVLAQAF with polyhistidine tag at the N-terminus.
Accession	P15018.1
Tag	His-tag at the N-terminus
Mol mass	20.52 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is < 0.2 ng/mL.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

LIF, a pleiotrophic factor, is identified in multiple cell types, including T cells, myelomonocytic lineages, fibroblast s, liver, heart and melanoma. LIF is capable of promoting long-term maintenance of embryonic stem cells by inhibiting spontaneous differentiation. In addition, LIF also have abilities including stimulation of differentiation of cholinergic nerves, the stimulation of acute phase protein synthesis by hepatocytes, and suppression of adipogenesis by supressing the lipoprotein lipase in adipocytes.

SDS-PAGE

