Mouse LIF, C-His Tag Protein

HA210735

Product name:	Mouse LIF, C-His Tag
Species reactivity:	Mouse
Bio-Activity:	Mouse LIF can replace fibroblast feeding layer or other conditioned medium under the condition of 1000 U/mL, maintain the undifferentiated state of mouse embryonic stem cells ES.W4 and promote cell proliferation.
Protein construction description:	A DNA sequence encoding the mouse LIF protein (P09056) (Ser 24-Phe 203) was expressed with a His tag at the C-terminus.

Background: The protein encoded by this gene is a pleiotropic cytokine with roles in several different systems. It is involved in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and may also have a role in immune tolerance at the maternal-fetal interface. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes.

Purity: >95% as determined by SDS-PAGE.

Endotoxin: Less than 1.0 EU per μg by the LAL method.

Fragment region: LIF (24-203)

Source: HEK293

Accession: P09056

Predicted molecular mass: 21.2 kD

Formulation: Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution: Reconstitute at 250 μg/ml in sterile water.

Storage: Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20℃ to -80℃ It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Images

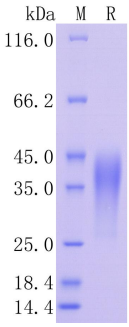

Fig1: Protein on SDS-PAGE under reducing (R) condition.

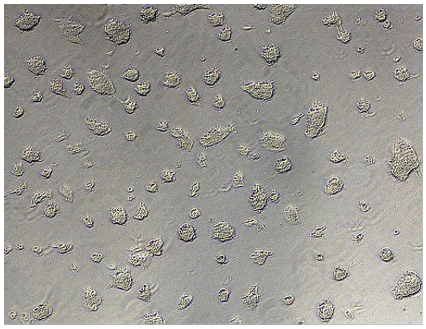

Fig2: Mouse LIF can replace fibroblast feeding layer or other conditioned medium under the condition of 1000 U/mL, maintain the undifferentiated state of mouse embryonic stem cells ES.W4 and promote cell proliferation.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".