orders@qkine.com
support@qkine.com

Recombinant mouse LIF protein (Qk018)



Type: Stem cells

Available for purchase: Unit Size (µg): 25, 50, 100, 500, 1000

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Product Information

Mouse LIF (murine leukemia inhibitory factor) protein maintains the pluripotency and self-renewal of mouse embryonic and induced pluripotent stem cells.

Qkine recombinant mouse LIF protein is bioactive, animal origin-free and carrier-protein free for highly reproducible results.

Alternative protein names

Mouse/murine leukemia inhibitory factor, Differentiation-stimulating factor, D factor, Qk18

Molecular weight

20 kDa

Protein Uniprot number

High purity mouse LIF protein (Uniprot: P09056)

Species reactivity

- mouse
- species similarity:
- human - 97%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

- Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml

Featured applications

- Propagation of mouse embryonic stem cells

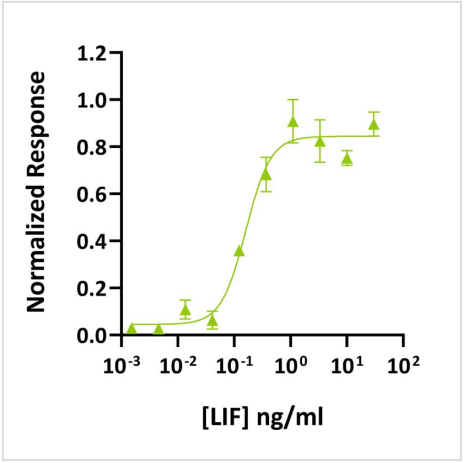
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

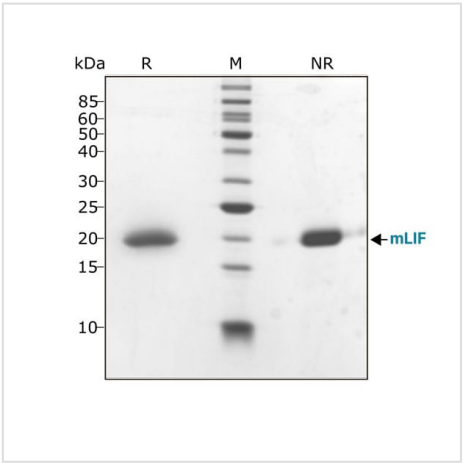
Bioactivity

Mouse LIF activity was determined using the LIF-responsive firefly luciferase reporter assay in HEK293 cells co-transfected with the receptor for mouse LIF. Transfected cells were treated in triplicate with a serial dilution of LIF overnight. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity. Data from mouse LIF lot #104350. EC50 = 162 pg/ml.



Purity

Mouse LIF protein (Qk018) migrates as a single band at 20 kDa in non-reducing (NR) and upon reduction (R) with β-mercaptoethanol. Purified recombinant mouse LIF protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced conditions (NR) and stained with Coomassie Brilliant Blue R250. Data from Qk018 lot #104278.



Original product page: https://qkine.com/product/recombinant-mouse-lif-protein/

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