

## 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

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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

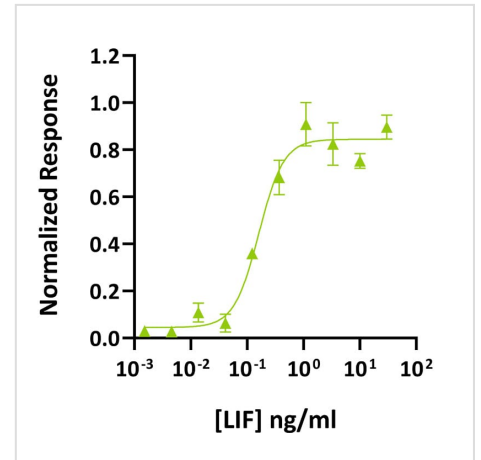
## **Further quality assays**

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

## Scientific Information

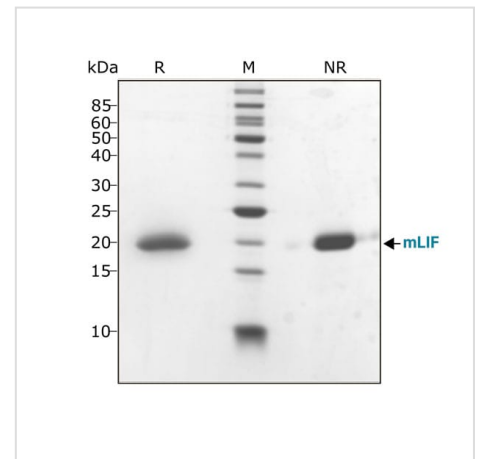
### Bioactivity

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  $\beta$ -mercaptoethanol. Purified recombinant mouse LIF protein (3  $\mu$ g) was resolved using 15% w/v SDS-PAGE in reduced (+ $\beta$ -mercaptoethanol, R) and non-reduced conditions (NR) and stained with Coomassie Brilliant Blue R250. Data from Qk018 lot #104278.



**Original product page:** <https://ryan.calliope-alpha.ts.net/product/recombinant-mouse-lif-protein/>

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