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Datasheet for ABIN1344370 LIF Protein (AA 23-202)

Image



Overview

Quantity:	10 µg
Target:	LIF
Protein Characteristics:	AA 23-202
Origin:	Human, Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Specificity:	Mouse and human embryonic stem cells.
Cross-Reactivity:	Human, Mouse (Murine)
Characteristics:	Human LIF (aa 23-202) is fused at the N-terminus to a tag.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.05EU/µg purified protein (LAL test, Lonza).

Target Details

Target:	LIF
Alternative Name:	LIF (LIF Products)
Background:	LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities also

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Molecular Weight:	~46kDa (SDS-PAGE)
	not bind LIF, but is required for high affinity binding of LIF.
	LIF-R alpha that binds LIF with low affinity and the 130 kDa (gp130) subunit that by itself does
	signaling. LIF binds to a high affinity heterodimeric receptor complex consisting of two proteins:
	ERK signaling. By contrast, mouse ES cells can be maintained by LIF-mediated JAK & STAT
	pathway does not maintain pluripotency in these cells, which instead rely on FGF2-mediated
	hepatocytes. LIF activates JAK & STAT signaling in human embryonic stem (ES) cells, but this
	induction of neuronal cell differentiation and the stimulation of acute-phase protein synthesis in
	include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the

UniProt:	P15018
Pathways:	JAK-STAT Signaling, Positive Regulation of Peptide Hormone Secretion, Negative Regulation of
	Hormone Secretion, Stem Cell Maintenance, Growth Factor Binding

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Maintains pluripotency of mouse and human embryonic stem cells. The LIF (GST-tagged) from AdipoGen has the same activity as cleaved LIF.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	Lot specific
Buffer:	Lyophilized. Contains PBS.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Stable for at least 6 months after receipt when stored at -20°C.
Expiry Date:	6 months

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Flow Cytometry

Image 1. Figure: Human Leukemia Inhibitory Factor (LIF) (rec.) maintains pluripotency of mouse ES cells. Method: Mouse ES oct4 GFP cells were cultured for 3 days in the presence of the indicated concentrations of LIF and followed by flow cytometry analysis of the GFP expression (indicating the expression of Oct4, thus of pluripotency).

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