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Datasheet for ABIN2181462 LIF Protein (AA 23-202)

2 Images



Overview

Quantity:	50 µg
Target:	LIF
Protein Characteristics:	AA 23-202
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

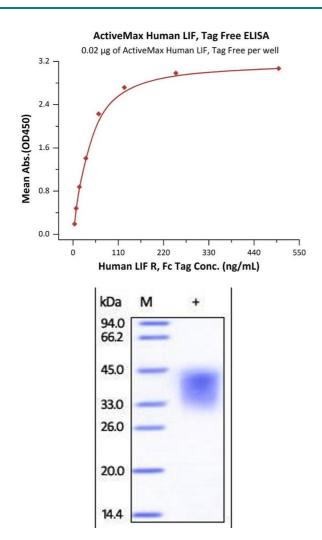
Brand:	ActiveMax®
Sequence:	AA 23-202
Characteristics:	rhLIF, with Gly-Pro at the N- terminus, has a calculated MW of 19.9 kDa. The predicted N- terminus is Ser 23. The reducing (R) protein migrates as 33-45 kDa.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per μ g by the LAL method.
Target Details	

Target:	LIF
Alternative Name:	LIF (LIF Products)

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Target Details

Background:	Leukemia inhibitory factor, or LIF, an interleukin 6 class cytokine, is a protein in cells that affects
	cell growth and development.Leukemia Inhibitory Factor has several functions such as
	cholinergic neuron differentiation, control of stem cell pluripotency, bone & fat metabolism,
	mitogenesis of factor dependent cell lines & promotion of megakaryocyte production in vivo.
	Removal of LIF pushes stem cells toward differentiation, but they retain their proliferative
	potential or pluripotency. Therefore LIF is used in mouse embryonic stem cell culture. It is
	necessary to maintain the stem cells in an undifferentiated state, however genetic manipulation
	of embryonic stem cells allows for LIF independent growth, notably overexpression of the gene
	Nanog. LIF is not required for culture of human embryonic stem cells.
Molecular Weight:	19.9 kDa
Pathways:	JAK-STAT Signaling, Positive Regulation of Peptide Hormone Secretion, Negative Regulation of
	Hormone Secretion, Stem Cell Maintenance, Growth Factor Binding
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After
	reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



ELISA

Image 1. Immobilized Human LIF, Tag Free (ABIN2181462,ABIN3071723,ABIN3071724) at 0.2 μg/mL (100 μL/well) can bind Human LIF R, Fc Tag (ABIN2444162,ABIN2181467) with a linear range of 4-63 ng/mL (QC tested).

SDS-PAGE

Image 2. Human LIF on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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