antibodies

Datasheet for ABIN5954922 LIF Protein (AA 23-202) (His tag,AVI tag,Biotin)





Overview

Quantity:	200 µg
Target:	LIF
Protein Characteristics:	AA 23-202
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIF protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 23-202
Specificity:	Biotinylation of this product is performed using Avitag [™] technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	LIF
Alternative Name:	LIF (LIF Products)
Background:	Leukemia inhibitory factor, or LIF, an interleukin 6 class cytokine, is a protein in cells that affects
	cholinergic neuron differentiation, control of stem cell pluripotency, bone & fat metabolism,

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Target Details

	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:	23.4 kDa
NCBI Accession:	NP_002300
Pathways:	JAK-STAT Signaling, Positive Regulation of Peptide Hormone Secretion, Negative Regulation of
	Hormono Socration, Stom Coll Maintonanco, Growth Factor Binding

Application Details

Comment:	Ready-to-use AvitagTM biotinylated protein:
	The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino
	acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector
	construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli
	biotin ligase BirA.
	This single-point enzymatic labeling technique brings many advantages for commonly used
	binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does
	NOT interfere with the target protein's natural binding activities. In addition, when immobilized
	on an avidin-coated surface, the protein orientation is uniform because the position of the Avi
	tag in the protein is precisely controlled.

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

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Image 1. Biotinylated Human LIF, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

ELISA

Image 2. Immobilized Biotinylated Human LIF, His,Avitag (ABIN5954922,ABIN6253549) on SA-coated surface at 1 μ g/mL (100 μ L/well) can bind Human LIF R, Fc Tag (ABIN2444162,ABIN2181467) with a linear range of 1-31 ng/mL (QC tested).

