Datasheet for ABIN5854824

LIF Protein (AA 23-202) (His tag)

1 Image

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Overview

Quantity:	100 µg
Target:	LIF
Protein Characteristics:	AA 23-202
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This LIF protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	ADPSPLPITP VNATCAIRHP CHNNLMNQIR SQLAQLNGSA NALFILYYTA QGEPFPNNLD KLCGPNVTDF PPFHANGTEK AKLVELYRIV VYLGTSLGNI TRDQKILNPS ALSLHSKLNA TADILRGLLS NVLCRLCSKY HVGHVDVTYG PDTSGKDVFQ KKKLGCQLLG KYKQIIAVLA QAFHHHHHH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity Comment:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 for this effects is less or equal to 0.5 ng/ml.

Target Details

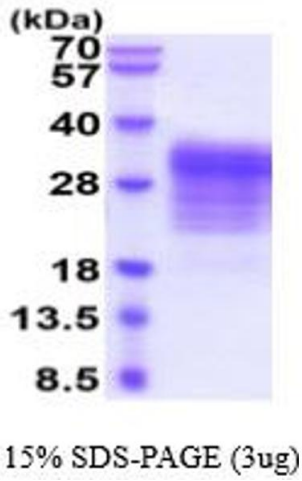
Target:	LIF
Alternative Name:	LIF (LIF Products)
Background:	LIF, as known as leukemia inhibitory factor, is a pleiotropic glycoprotein belonging to the LI6 family of cytokines. This protein is involved in growth promotion and cell differentiation of different types of target cells, influence on bone metabolism, embryogenesis and inflammation. It is produced by the adrenal cortex and likely enhances its production of cortisol and aldosterone. Also, it can function as an autocrine growth factor in some pancreatic cancers, but induced differentiation in the leukemic cell line M1. Recombinant human LIF, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	20.8kDa (189aa) 18-40kDa (SDS-PAGE under reducing conditions.)
NCBI Accession:	NP_002300
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:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.