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Datasheet for ABIN2018198 LIF Protein (AA 24-203)

3 Images



Overview

Quantity:	50 µg
Target:	LIF
Protein Characteristics:	AA 24-203
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Characteristics:	ED50 < 0.01 ng/mL, measured by a cell differentiation assay using M1 cells, corresponding to a specific activity of > 1.0x 10^8 units/mg.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	LIF
Abstract:	LIF Products
Background:	Leukemia Inhibitory Factor (LIF) is a pleiotropic cytokine belonging to the long four-helix bundle cytokine superfamily. LIF shares tertiary structure with several other cytokines, including
	Interleukin-6 (IL-6), Oncostatin M, ciliary neurotropic factor, and cardiotrophin-1, and their
	functions in vivo are also redundant to some extent. LIF can bind to the common receptor of IL-

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	6 subfamily, gp130, and then recruit its own receptor LIF Receptor to form a ternary complex.
	The basal expression of LIF in vivo is low, and its expression is induced by pro-inflammatory
	factors, including lipopolysaccharide, IL-1, and IL-17, and inhibited by anti-inflammatory agents,
	including IL-4 and IL-13. The functions of LIF include proliferation of primordial germ cells,
	regulation in blastocyst implantation and early pregnancy, and maintenance of pluripotent
	embryonic stem cells.Recombinant mouse Leukemia Inhibitory Factor (rmLIF) produced in E.
	coli is a single non-glycosylated polypeptide chain containing 180 amino acids. A fully
	biologically active molecule, rmLIF has a molecular mass of 19.9 kDa analyzed by reducing
	SDS-PAGE.
	Synonyms: CDF, HILDA, D-FACTOR, Differentiation- stimulating factor, Melanoma-derived LPL
	inhibitor, MLPLI, Emfilermin, Leukemia inhibitory factor, LIF, DIA
Molecular Weight:	19.9 kDa, observed by reducing SDS-PAGE.
UniProt:	P09056
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
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against 50 mM Tris, 150 mM NaCl, pH 8.0.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant mouse Leukemia Inhibitory Factor (rmLIF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmLIF should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months

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Activity Assay

Image 1. LIF, Mouse stimulates cell differentiation using M1 cells. The ED50 for this effect is less than 0.01 ng/ml. (2.7 pg/mL).

Image 2.



Peak Table

Heigh 887

1.289 97.42

Area 5726

43275 5728 44421

SDS-PAGE

Image 3. $2 \mu g$ of LIF, Mouse was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.

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