Human LIF, Animal-Free Recombinant Protein, PeproTech®

Product Details	
Size	1 mg
Species	Human
Published Species	Rat, Human
Expression system	E. coli
Amino acid sequence	SPLPITPVNA TCAIRHPCHN NLMNQIRSQL AQLNGSANAL FILYYTAQGE PFPNNLDKLC GPNVTDFPPF HANGTEKAKL VELYRIVVYL GTSLGNITRD QKILNPSALS LHSKLNATAD ILRGLLSNVL CRLCSKYHVG HVDVTYGPDT SGKDVFQKKK LGCQLLGKYK QIIAVLAQAF
Molecular weight	19.6 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<0.1 EU/µg
Activity	Determined by its ability to stimulate the proliferation of human TF-1 cells. The expected ED50 is 0.1 ng/ml, corresponding to a specific activity of 1 x 10^7 units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	HPLC, SDS-PAGE
Contains	no preservative
Storage conditions	-20°C

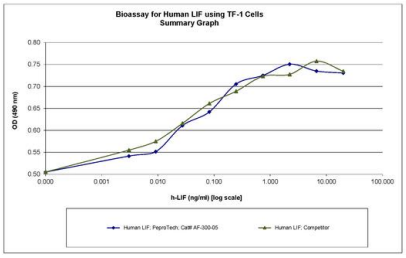
Applications	Tested Dilution	Publications
Functional Assay (FN)	Assay-dependent	-
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Recombinant Human LIF is a 19.7 kDa protein containing 180 amino acid residues, including three disulfide bonds.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

Product Images For Human LIF, Animal-Free Recombinant Protein, PeproTech®



Human LIF, Animal-Free Protein (AF-300-05-1MG) in FN
Bioassay analysis of Human LIF, Animal-Free Recombinant Protein, PeproTech® (Product # AF-300-05-1MG).

2 References

In vitro Assay (1)

Cell

Chimeric contribution of human extended pluripotent stem cells to monkey embryos ex vivo.

Authors: Tan T,Wu J,Si C,Dai S,Zhang Y,Sun N,Zhang E,Shao H,Si W,Yang P,Wang H,Chen Z,Zhu R,Kang Y, Hernandez-Benitez R,Martinez Martinez L,Nuñez Delicado E,Berggren WT,Schwarz M,Ai Z,Li T,Rodriguez Esteban C, Ji W,Niu Y,Izpisua Belmonte JC

Year
2021

Species
Human

Miscellaneous PubMed (1)

Journal of neurochemistry

Oncostatin M induces hyperalgesic priming and amplifies signaling of cAMP to ERK by RapGEF2 and PKA.

"AF-300-05 was used in Sample Preparation to conclude that priming induced by OSM uses a novel mechanism to enhance and prolong coupling of cAMP/PKA to ERK1/2 signaling without changing the overall pathway structure."

Authors: Garza Carbajal A,Ebersberger A,Thiel A,Ferrari L,Acuna J,Brosig S,Isensee J,Moeller K,Siobal M,Rose-John S,Levine J,Schaible HG,Hucho T

Year
2021

Species
Rat