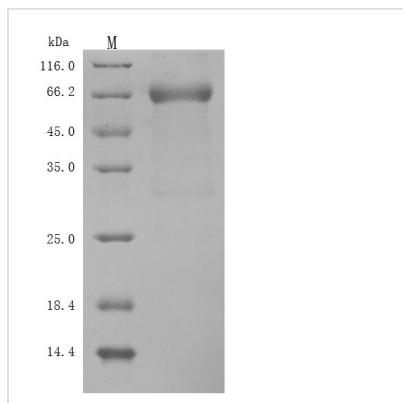


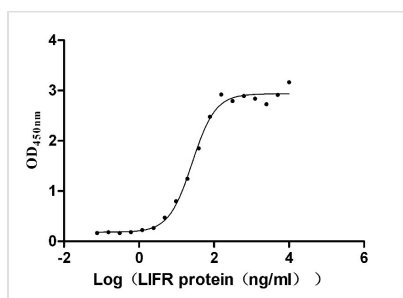


Recombinant Human Leukemia inhibitory factor (LIF) (Active)

Product Code	CSB-MP012928HUd9
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P15018
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human LIF at 2 µg/ml can bind human LIFR (CSB-MP012929HUi9), the EC ₅₀ is 22.58-30.24 ng/ml.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPFPN NLDKLCGPNVTDFFPFHANGTEKAKLVELYRIVVYLGTS LGNITRDQKILNPSAL SLHSKLNATADILRGLLSNVLCRLCSKYHVGHV DVTYGPDTSGKDVFQKKKLG CQLLGKYKQIIAVLAQAF
Lead Time	3-7 business days
Research Area	Cancer
Source	Mammalian cell
Gene Names	LIF
Expression Region	23-202aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc-tagged
Mol. Weight	48.6 kDa
Protein Description	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized human LIF at 2 $\mu\text{g/ml}$ can bind human LIFR (CSB-MP012929HUi9), the EC_{50} is 22.58-30.24 ng/ml.

Description

Recombinant Human LIF is a full-length mature protein derived from mammalian cells, featuring the 23-202aa expression region of the Leukemia inhibitory factor. This protein plays a significant role in cancer research and is equipped with a C-terminal hFc-tag. The purity of LIF is greater than 90% as assessed by SDS-PAGE, and its endotoxin level is less than 1.0 EU/ μg , as determined by the LAL method. The activity of this protein is measured by its binding ability in a functional ELISA, where immobilized human LIF at 2 $\mu\text{g/ml}$ can bind human LIFR (CSB-MP012929HUi9) with an EC_{50} value of 22.58-30.24 ng/ml. The lyophilized powder format ensures easy storage and handling for a wide range of research applications.

Endotoxin

Less than 1.0 EU/ μg as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$. Our default final concentration of glycerol is 50%. Customers could use it as reference.