

## Product Datasheet

### Recombinant Human Leukemia inhibitory factor (LIF) (Active) (orb1095883)

|                             |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number</b>       | orb1095883                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Category</b>             | Proteins                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>          | This Recombinant Human Leukemia inhibitory factor (LIF) (Active) spans the amino acid sequence from region 23-202aa. Purity: Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                    |
| <b>Tag</b>                  | C-terminal hFc1-tagged                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form/Appearance</b>      | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Buffer/Preservatives</b> | Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>               | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Sequence</b>     | SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPPNNLDKLCGPN<br>VTDFPPFHANGTEKAKLVELYRIVVYLGTS LGNITRDQKILNPSALSLSKLNATADILRGLLS<br>NVLCRLCSKYHVGHVDTYGPDTSGKDV FQKKKLG CQLLGKYKQIIAVLAQAF                                                                                                                                                                                                                |
| <b>Protein Length</b>       | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>           | <b>P15018</b>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MW</b>                   | 48.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Application notes</b>    | 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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| <b>Endotoxins</b>           | Less than 1.0 EU/µg as determined by LAL method.                                                                                                                                                                                                                                                                                                                                                            |

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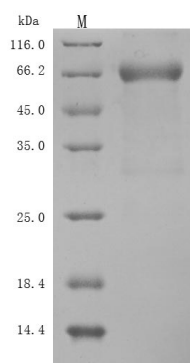
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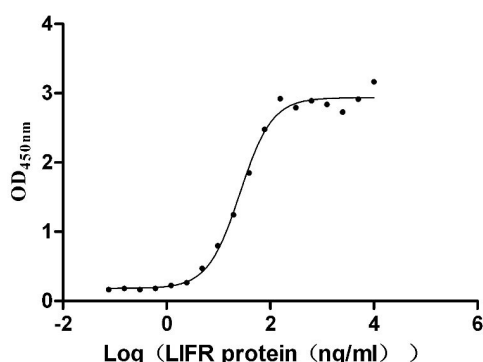
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|                            |                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source</b>              | Mammalian cell                                                                                                                                                                                                                                                                  |
| <b>Biological Origin</b>   | Homo sapiens (Human)                                                                                                                                                                                                                                                            |
| <b>Biological Activity</b> | Measured by its binding ability in a functional ELISA. Immobilized human LIF at 2 µg/ml can bind human LIFR, the EC50 is 22.58-30.24 ng/ml.                                                                                                                                     |
| <b>Expression Region</b>   | 23-202aa                                                                                                                                                                                                                                                                        |
| <b>Storage</b>             | 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. |
| <b>Note</b>                | For research use only                                                                                                                                                                                                                                                           |



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



Measured by its binding ability in a functional ELISA. Immobilized human LIF at 2 µg/ml can bind human LIFR, the EC50 is 22.58-30.24 ng/ml.

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