

## 32-6489: LIFR Mouse

**Application :** Functional Assay

**Alternative Name :** Leukemia inhibitory factor receptor, LIF receptor, LIF-R, D-factor/LIF receptor, CD118, CD antigen, leukemia inhibitory factor receptor isoform 1 precursor, Lifr.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Leukemia Inhibitory Factor Receptor Alpha or LIFR is a protein, part of the Interleukin-6 receptor group of proteins. As such, LIFR acts as a mediator for various proteins (IL-6, IL-11, IL-27, Oncostatin M etc). LIFR has many functions as a cytokine, he has an affect on the cell proliferation, differentiation and survival in the different stages of life. In different types of breast cancer LIFR is down regulated, and as such, can be used as a prognostic tool.

LIFR Mouse Recombinant produced in Baculovirus is a single glycosylated polypeptide chain containing 794 amino acids (44-828 aa) and having a molecular mass of 89.6kDa. LIFR is fused to a 9 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** LIFR protein (0.25mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** ADPLKRGVQD LKCTTNMNRV WDCTWPAPLG VSPGTVKDIC IKDRFHSCHP LETTNVKIPA LSPGDHEVTI  
NYLNGFQSKF TLNEKDVSLI PETPEILDLS ADFFTSSLLL KWNDRGSAIP HPSNATWEIK VLQNPRTPEV  
ALVLLNTMLS GKDTVQHWNN TSDLPLQCAT HVSIRWHID SPHFSGYKEW SDWSPLKNIS WIRNTETNVF  
PQDKVVLGAS NMTICCMSPT KVLGGQIGNT LRPLIHYGQ TVAIHILNIP VSENSGTNII FITDDDVYGT  
VVFAGYPPDV PQKLSCEHD LKEIICSWNP GRITGLVGPR NTEYTLFESI SGKSAVFHRI EGLTNETYRL  
GVQMHPGQEI HNFTLTGRNP LGQAQSAVVI NVTERVAPHD PTLKVKDIN STVVTFSWYL PGNFTKINLL  
CQIEICKANS KKEVRNATIR GAEDSTYHVA VDKLNPYTAY TFRVRCSSKT FWKWSRWSDE KRHLTTEATP  
SKGPDWTREW SSDGKNLIVY WKPLPINEAN GKILSYNVSC SLNEETQSVL EIFDPQHRAE IQLSKNDYII  
SVVARNSAGS SPPSKIASME IPNDITVEQ AVGLGNRIFL TWRHDPNMTC DYVIKWCNSS RSEPCLLDWR  
KVPSNSTETV IESDQFQPGV RYNFYLYGCT NQGYQLLSI IGYVEELAPI VAPNFTVEDT SADSILVKWD  
DIPVEELRGF LRGYLFYFQK GERDTPKTRS LEPHSDIKL KNITDISQKT LRIADLQGKT SYHLVLRAYT  
HGGLGPEKSM FVVTKENS HH HHHH.

### Application Note

Measured by its ability to inhibit proliferation using TF-1 human erythroleukemic cells. The ED50 range <= 1ug/ml with Mouse LIF.