
Product Data Sheet

Product Name: LIFR Mouse
 Cat. No.: GP26060
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Sf9, Baculovirus cells. |
| Physical Appearance | solid | Shipping Condition | withIcePacks |
| Synonyms | Leukemia inhibitory factor receptor, LIF receptor, LIF-R, D-factor/LIF receptor, CD118, CD antigen, leukemia inhibitory factor receptor isoform 1 precursor, Lifr. | | |
| Amino Acid Sequence | ADPLKRGVQD LKCTTNNMRV WDCTWPAPLG VSPGTVKDIC IKDRFHSCHP LETTNVKIPA LSPGDHEVTI NYLNGFQSKF TLNEKDVSLI PETPEILDLS ADFFTSSLLL KWNDRGSALP HPSNATWEIK VLQNPRTPEV ALVLLNTMLS GKDTVQHWNW TSDLPLQCAT HSVSIRWHID SPHFSGYKEW SDWSPLKNIS WIRNTETNVF PQDKVVLGAS NMTICCMSPT KVLSGQIGNT LRPLIHLYGQ TVAIHILNIP VSENSGTNII FITDDDVIYGT VVFAGYPPDV PQKLSCETHD LKEIICSWNP GRITGLVGPR NTEYTLFESI SGKSAVFHRI EGLTNETYRL GVQMHPGQEI HNFTLTGRNP LGQAQSAVVI NVTERVAPHD PTSLKVKDIN STVVTFSWYL PGNFTKINLL CQIEICKANS KKEVRNATIR GAEDSTYHVA VDKLNPYTAY TFRVRCSSKT FWKWSRWSDE KRHLTTEATP SKGPDTWREW SSDGKNLIVY WKPLPINEAN GKILSYNVSC SLNEETQSVL EIFDPQHRAE IQLSKNDYII SVVARNASAGS SPPSKIASME IPNDDITVEQ AVGLGNRIFL TWRHDPNMTC DYVIKWCNSS RSEPCLLDWR KVPSNSTETV IESDQFQPGV RYNFYLYGCT NQGYQLLSI IGYVEELAPI VAPNFTVEDT SADSILVKWD DIPVEELRGF LRGYLFYFQK GERDTPKTRS LEPHHS DIKL KNITDISQKT LRIADLQGKT SYHLVLRAYT HGGLGPEKSM FVVTKENS HH HHHH. | | |
| Formulation | LIFR protein (0.25mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4). | | |

Introduction

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-

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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.

Biological Activity

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

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC 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.

Background

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.

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