
Product Data Sheet

Product Name: LILRB1 Human
 Cat. No.: GP26301
 Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Leukocyte immunoglobulin-like receptor subfamily B member 1, Leukocyte immunoglobulin-like receptor 1, leucocyte Ig-like receptor B1, CD85 antigen-like family member J, Immunoglobulin-like transcript 2, myeloid inhibitory receptor 7, Monocyte/macrophage immunoglobulin-like receptor 7, Ig-like transcript 2, MIR-7, LILRB1, ILT2, LIR1, MIR7, LIR-1, ILT-2, PIRB, PIR-B

Amino Acid Sequence
 GHLPKPTLWA EPGSVITQGS PVTLCRCQGGQ ETQEYRLYRE KKTAPWITRI
 PQELVKKGQF PIPSITWEHT GRYRCYYGSD TAGRSESSDP LELVVTGAYI
 KPTLSAQPSV VVNSGGNVTL QCDSQVAFDG FILCKEGEDE HPQCLNSQPH
 ARGSSRAIFS VGPVSPSRRW WYRCYAYDSN SPYEWSLPSD LLELLVLGVS
 KKPSLSVQPG PIVAPEETLT LQCGSDAGYN RFVLYKDGER DFLQLAGAQP
 QAGLSQANFT LGPVRSYGG QYRCYGAHNL SSEWSAPSDP LDILIAGQFY
 DRVLSVQPG PTVASGENVT LLCQSQGW MQ TFLTKEGAA DDPWRLRSTY
 QSQKYQAEFP MGPV TSAHAG TYRCYGSQSS KPYLLTHPSD PLELVVSGPS
 GGPSSPTTGP TSTSGPEDQP LTPTGSDPQS GLGRHLGVLE HHHHHH

Formulation The LILRB1 solution (0.25mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).

Introduction

Leukocyte Immunoglobulin Like Receptor B1 (LILRB1) is a member of the leukocyte immunoglobulin like receptor (LIR) family. LILRB1 is expressed on immune cells, binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. LILRB1 controls inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. LILRB1 is also expressed on the surface of B cells and monocytes, subsets of NK cells,

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gamma δ T cells, memory/effector CD8+ T cells and monocyte-derived dendritic cells.

Biological Activity

Biological activity is > 50%. It is defined by the ability of the immobilized protein to support the adhesion of HSB2 human peripheral blood acute lymphoblastic leukemia cells, while the cells are added to LILRB1 coated plates at 5ug/ml.

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

LILRB1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 446 amino acids (24-461 a.a) and having a molecular mass of 48.5kDa. LILRB1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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