

Recombinant Human LIRB3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50628

Size: 10ug, 100ug

Protein Name: Leukocyte immunoglobulin-like receptor subfamily B member 3 (LIR-3) (Leukocyte immunoglobulin-like receptor 3) (CD85 antigen-like family member A) (Immunoglobulin-like transcript 5) (ILT-5) (Monocyte inhibitory receptor HL9) (CD antigen CD85a)

Synonym: LILRB3, ILT5, LIR3

UniProt ID: O75022

UniProt Link: www.uniprot.org/uniprotkb/O75022/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 631 AA

Molecular Weight: 69 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTPALTALLCLGLSLGPRTRVQAGPFPKPTLWAEPGSVISWGGSPVTIWCQGSQEAQEYRLHKEGSP
EPLDRNNPLEPKNKARFSIPSMTEHHAGRYRCHYYSSAGWSEPSDPLEMVMGTGAYSKPTLSALPSP
VVASGGNMTLRCSQKGYHHFVLMKEGEHQLPRTLDSQQQLHSRGFQALFPVGPVTPSHRWRFTC
YYYYTNTPWVWSHPSDPLEILPSGVSRKPSLLTLQGPVLAPGQSLTLQCGSDVGYNRFVLYKEGER
DFLQRPQGQPQAGLSQANFTLGPVSPSNGGQYRCYGAHNLSSEWSAPSDPLNLMAGQIYDTVSL
SAQPGPTVASGENVTLLCQSWWQFDTFLLTKEGAAHPPLRLRSMYGAHKYQAEFPMSPVTSAHAG
TYRCYGSYSSNPHLLSHPSEPLELVVSGHSGGSSLPPTGPPSTPGLGRYLEVLIGVSVAFVLLLFLL
FLLRRQRHSHKRTSDQRKTDQFQRPAGAAETEPKDRGLLRRSSPAADVQEENLYAAVKDTQSEDR
VELDSQSPHDEDPQAVTYAPVKHSSPRREMASPPSSLSGEFLDTKDRQVEEDRQMDTEAAASEAS
QDVTYAQLHSLTLRRKATEPPPSQEGEPPAEPSTIATLAIH

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Leukocyte immunoglobulin-like receptor subfamily B member 3 (LIR-3) (Leukocyte immunoglobulin-like receptor 3) (CD85 antigen-like family member A) (Immunoglobulin-like transcript 5) (ILT-5) (Monocyte inhibitory receptor HL9) (CD antigen CD85a) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: May act as receptor for class I MHC antigens. Becomes activated upon coligation of LILRB3 and immune receptors, such as FCGR2B and the B-cell receptor. Down-regulates antigen-induced B-cell activation by recruiting phosphatases to its immunoreceptor tyrosine-based inhibitor motifs (ITIM).

Subcellular Localization: Cell membrane; Single-pass type I membrane protein.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.