

LILRB3/CD85a Protein, Human (Biotinylated, HEK293, His)

Cat. No.:	HY-P75913
Synonyms:	Leukocyte immunoglobulin-like receptor subfamily B member 3; LIR-3; ILT-5; CD85a
Species:	Human
Source:	HEK293
Accession:	O75022 (G24-E443)
Gene ID:	102725035
Molecular Weight:	Approximately 47.6 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	LILRB3/CD85a Protein appears to function as a receptor for class I MHC antigens, highlighting its integral role in immune recognition. Activation of LILRB3 is triggered upon coligation with immune receptors like FCGR2B and the B-cell receptor. This activation leads to the down-regulation of antigen-induced B-cell activation through the recruitment of phosphatases to its immunoreceptor tyrosine-based inhibitor motifs (ITIM). The protein further interacts with key signaling molecules including LYN, PTPN6/SHP-1, and PTPN11/SHP-2, emphasizing its involvement in intricate signaling cascades that regulate immune responses. A comprehensive exploration of LILRB3's interactions and its modulation of immune receptor activities could enhance our understanding of its function and potential implications in the fine-tuning of B-cell activation and immune regulation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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