

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

Cat. No.:	HY-P75914
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 55-75 kDa due to the glycosylation

### PROPERTIES

AA Sequence	<pre> G P F P K P T L W A   E P G S V I S W G S   P V T I W C Q G S Q   E A Q E Y R L H K E G S P E P L D R N N   P L E P K N K A R F   S I P S M T E H H A   G R Y R C H Y Y S S A G W S E P S D P L   E M V M T G A Y S K   P T L S A L P S P V   V A S G G N M T L R C G S Q K G Y H H F   V L M K E G E H Q L   P R T L D S Q Q L H   S R G F Q A L F P V G P V T P S H R W R   F T C Y Y Y Y T N T   P W V W S H P S D P   L E I L P S G V S R K P S L L T L Q G P   V L A P G Q S L T L   Q C G S D V G Y N R   F V L Y K E G E R D F L Q R P G Q Q P Q   A G L S Q A N F T L   G P V S P S N G G Q   Y R C Y G A H N L S S E W S A P S D P L   N I L M A G Q I Y D   T V S L S A Q P G P   T V A S G E N V T L L C Q S W W Q F D T   F L L T K E G A A H   P P L R L R S M Y G   A H K Y Q A E F P M S P V T S A H A G T   Y R C Y G S Y S S N   P H L L S H P S E P   L E L V V S G H S G G S S L P P T G P P   S T P G L G R Y L E           </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human CD85a is present at 2 µg/mL can bind Recombinant Human Angiotensin-like 7. The ED <sub>50</sub> for this effect is 261.4 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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 <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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