

CD300a/LMIR1 Protein, Human (HEK293, Fc-His)

Cat. No.:	HY-P70754
Synonyms:	CMRF35-like molecule 8; CD300 antigen-like family member A; CMRF-35-H9; CMRF35-H; IRC1/IRC2; Immunoglobulin superfamily member 12; Inhibitory receptor protein 60; NK inhibitory receptor
Species:	Human
Source:	HEK293
Accession:	Q9UGN4 (L18-Q178)
Gene ID:	11314
Molecular Weight:	Approximately 75.0 kDa

PROPERTIES

AA Sequence	<pre> L S K C R T V A G P V G G S L S V Q C P Y E K E H R T L N K Y W C R P P Q I F L C D K I V E T K G S A G K R N G R V S I R D S P A N L S F T V T L E N L T E E D A G T Y W C G V D T P W L R D F H D P V V E V E V S V F P A S T S M T P A S I T A A K T S T I T T A F P P V S S T T L F A V G A T H S A S I Q E E T E E V V N S Q </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 5% Trehalose, pH 8.0.
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	CD300a/LMIR1, an inhibitory receptor, potentially plays a role in diminishing cytolytic activity in natural killer (NK) cells and suppressing mast cell degranulation. Additionally, it acts as a negative regulator in Toll-like receptor (TLR) signaling mediated by MYD88, although not TRIF, by activating PTPN6. Upon tyrosine phosphorylation, CD300a/LMIR1 engages with PTN6/SHP-1 and PTPN11/SHP-2, as well as INPP5D, illustrating its multifaceted involvement in immune regulation and cellular responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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