

CD300a/LMIR1 Protein, Mouse (156a.a, HEK293, Fc)

Cat. No.:	HY-P72514
Synonyms:	CMRF35-like molecule 8; CLM-8; MAIR-1; CD300a
Species:	Mouse
Source:	HEK293
Accession:	Q6SJK0 (L28-R183)
Gene ID:	217303
Molecular Weight:	58-75 kDa

PROPERTIES

AA Sequence	<p>L H G P S T M S G S V G E S L S V S C R Y E E K F K T K D K Y W C R V S L K I L</p> <p>C K D I V K T S S S E E A R S G R V T I R D H P D N L T F T V T Y E S L T L E D</p> <p>A D T Y M C A V D I S L F D G S L G F D K Y F K I E L S V V P S E D P V S S P G</p> <p>P T L E T P V V S T S L P T K G P A L G S N T E G H R E H D Y S Q G L R</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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 ₂ 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	<p>CD300a/LMIR1 protein serves as an inhibitory receptor that potentially contributes to the down-regulation of cytolytic activity in natural killer (NK) cells and the attenuation of mast cell degranulation. Additionally, it plays a negative regulatory role in Toll-like receptor (TLR) signaling, specifically mediated by MYD88 but not TRIF, by activating PTPN6. Upon tyrosine phosphorylation, CD300a/LMIR1 interacts with PTN6/SHP-1 and PTPN11/SHP-2, along with INPP5D.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA