

## CD300a/LMIR1 Protein, Human (178a.a, HEK293, His)

Cat. No.:	HY-P75636
Synonyms:	CMRF35-like molecule 8; CLM-8; MAIR-1; CD300a; IGSF12
Species:	Human
Source:	HEK293
Accession:	Q9UGN4 (M1-Q178)
Gene ID:	11314
Molecular Weight:	33-43 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m 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/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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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