

BTLA/CD272 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P7679
Synonyms:	rHuBTLA/CD272, C-Fc; B- and T-Lymphocyte Attenuator; CD272; BTLA
Species:	Human
Source:	HEK293
Accession:	Q7Z6A9-2 (K31-L150)
Gene ID:	151888
Molecular Weight:	Approximately 55.0 kDa

PROPERTIES

AA Sequence	K E S C D V Q L Y I K R Q S E H S I L A G D P F E L E C P V K Y C A N R P H V T W C K L N G T T C V K L E D R Q T S W K E E K N I S F F I L H F E P V L P N D N G S Y R C S A N F Q S N L I E S H S T T L Y V T G K Q N E L - F c t a g
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM 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 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	The B and T lymphocyte attenuator (BTLA/CD272) is a third member of co-inhibitory receptors, which belongs to the CD28 immunoglobulin-superfamily. BTLA/CD272 includes 2 immunoreceptor tyrosine-based inhibitory motifs (ITIM) in its cytoplasmic region and is expressed on a wide range of hematopoietic cells including T and B lymphocytes, NKT cells, NK cells, macrophages, dendritic cells and follicular T helper T cells ^{[1][2]}
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REFERENCES

[1]. Federica Piancone, et al. B Lymphocytes in Multiple Sclerosis: Bregs and BTLA/CD272 Expressing-CD19+ Lymphocytes Modulate Disease Severity. Sci Rep. 2016 Jul 14;6:29699.

[2]. Noriko Otsuki, et al. Expression and function of the B and T lymphocyte attenuator (BTLA/CD272) on human T cells. Biochem Biophys Res Commun. 2006 Jun 16;344(4):1121-7.

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

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