

## BTLA/CD272 Protein, Human (HEK293, hFc-Myc)

Cat. No.:	HY-P72030
Synonyms:	B- and T-lymphocyte-associated protein; CD272;
Species:	Human
Source:	HEK293
Accession:	Q7Z6A9 (K31-S150)
Gene ID:	151888
Molecular Weight:	Approximately 43.9 kDa

### PROPERTIES

AA Sequence	<div> <div>K E S C D V Q L Y I</div> <div>W C K L N G T T C V</div> <div>G S Y R C S A N F Q</div> </div> <div> <div>K R Q S E H S I L A</div> <div>K L E D R Q T S W K</div> <div>S N L I E S H S T T</div> </div> <div> <div>G D P F E L E C P V</div> <div>E E K N I S F F I L</div> <div>L Y V T D V K S A S</div> </div> <div> <div>K Y C A N R P H V T</div> <div>H F E P V L P N D N</div> <div>E R P S K D E M A S</div> </div>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of PBS, 6% Trehalose, 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.
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>BTLA/CD272, an inhibitory receptor expressed on lymphocytes, serves as a negative regulator of antigen receptor signaling through interactions with tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2. These interactions contribute to the modulation of immune responses and the maintenance of lymphocyte homeostasis. BTLA may engage in both cis and trans interactions with TNFRSF14, with cis interactions playing a regulatory role in naive T cells, inhibiting trans interactions to maintain a resting state. In contrast, trans interactions, predominant during adaptive immune responses, provide survival signals to effector T cells. The intricate interplay between BTLA and its binding partners underscores its multifaceted role in immune regulation.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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