

BTLA/CD272 Protein, Rat (HEK293, mFc)

Cat. No.:	HY-P75466
Synonyms:	B- and T-lymphocyte attenuator; CD272; BTLA
Species:	Rat
Source:	HEK293
Accession:	Q6PNM1 (K30-Y183)
Gene ID:	407756
Molecular Weight:	Approximately 55-77 kDa

PROPERTIES

AA Sequence	<p> K E P T K R I G E E C R V Q L K I K R N S S R S A W T G E L F K I E C P V T Y C V H R P N V T W C K H N G T R C V P L E V G P Q L H T S W V E N D Q A S A F V L Y F E P I H L S D D G V Y T C S A N L N S E V I N S H S V V I H V T E R T Q N C S E H P L I T A S D I P D A T N A S R P S T M E E R P G R T W L L Y </p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Mouse HVEM/TNFRSF14 is immobilized at 0.5 µg/mL (100 µL/well) can bind Recombinant Rat BTLA. The ED ₅₀ for this effect is approximately 1.083 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 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	BTLA/CD272 protein serves as an inhibitory receptor on lymphocytes, exerting negative regulation on antigen receptor signaling through PTPN6/SHP-1 and PTPN11/SHP-2. It engages in both cis and trans interactions with TNFRSF14. In cis interactions, BTLA/CD272 plays an immune regulatory role, inhibiting trans interactions in naive T cells to maintain a resting state. Conversely, in trans interactions, it can predominate during adaptive immune responses, providing survival signals to effector T cells. The protein interacts with tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2 and also engages with
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TNFRSF14/HVEM through its cysteine-rich domain 1.

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

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