

BTLA/CD272 Protein, Human (HEK293, His)

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| Cat. No.: | HY-P7678 |
| Synonyms: | rHuBTLA/CD272, His; B- and T-Lymphocyte Attenuator; CD272; BTLA |
| Species: | Human |
| Source: | HEK293 |
| Accession: | Q7Z6A9-2 (K31-L198) |
| Gene ID: | 151888 |
| Molecular Weight: | Approximately 30.0 kDa |

PROPERTIES

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| AA Sequence | <p> 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 S D T A G R E I N L H H H H H H </p> |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized after extensive dialysis against 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

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| 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.

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