

**PERFORMANCE DATA SHEET**

3220

**Human CD272(BTLA)-muIg Fusion Protein\***

For maximal recovery of contents  
please quick spin vial before opening

**CATALOG#: 542-020**

**QUANTITY: 25 µg**

**CONCENTRATION: 0.5 mg/ml**

**Molecular Structure:** A soluble fusion protein consisting of the muCD8 apha signal peptide residual amino acids+ linker: (1) **kpqapelrgs**(10) CD272 mature EC:

(11)**ipyldiwnihgkescdvqlyikrqsehsilagdppfelecpvkycanrphvtwcklngttcvkledrqtswkeeknisffilhfepvlpndngsyrca  
nfqsnlieshsttlyvtdvksaserpskdemasrp**(143)

Linker +Murine IgG2a Hinge + Fc :

(144)**gteprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvdvseddppdqiswfvnnvevhtaqtqthredynstlrsvsalpi  
qhqdwmmsgkefkckvnnkdlpapiertiskpkgsvrappvvyvlppeeemtkkqvftlcmvtdfmpediyvewtngktelnykntepvldsdgs  
yfmysklrvckknwvernsyscvvhcglhnhhtksfsrtpg**(378)

Predicted monomeric (non glycosylated) molecular weight: 43.0 kd. The molecule is dimeric and runs at ~100 kd in SDS-PAGE under native conditions, and ~50kd reduced.

**Transfectant Cell Line:** CHO

**INFORMATION:** Human CD272 (BTLA, B and T Lymphocyte Attenuator) is a member of the Immunoglobulin superfamily and has homology to CD152(CTLA-4). Engagement of BTLA by its co receptor CD270 (HVEM, a TNF superfamily member) can down regulate activated T and B cell responses. BTLA levels on antigen specific CD8+ T cells have been reported to decrease in viral specific, but not melanoma specific activated lines (1).

Recombinant CD272-muIg binds to recombinant CD270(HVEM)-muIg (cat #531-020) in EIA.

**REFERENCES:** 1) Derre' L, DE Speiser, et al. (2010) *J Clin Invest* **120**(1):157-167. 2) Pasero C,D Olive, et al. (2009) *Curr Mol Med* **9**(7): 911-927. 3) Gavrieli M, KM Murphy, et al. (2006) *Adv Immunol* **92**: 152-185.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended.

**PRODUCT STABILITY:** Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Recombinant protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography. Purity was >90% by SDS-PAGE.

**PERFORMANCE:** N-terminal sequence was as predicted: KPQAP. Recombinant protein was detectable at 10 ng/ml in EIA using Goat-anti-Mouse as a capture antibody and recombinant CD270(HVEM)-muIg/Biotin (Cat #531-030) followed by SA/HRP as detection reagents.

**\*This Product is intended for Laboratory Research use only.**

**CD272(BTLA)-muIg detected by CD270(HVEM)-muIg/Biotin in EIA**

