PERFORMANCE DATA SHEET
1822

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

For maximal recovery of contents please quick spin vial before opening

CATALOG#: 542-820 (Preservative-free)
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)**ipyldiwnihgkescdvqlyikrqsehsilagdpfelecpvkycanrphvtwcklngttcvkledrqtswkeeknisffilhfepvlpndngsyrcsa nfqsnlieshsttlyvtdvksaserpskdemasrp**(143)

Linker +Murine IgG2a Hinge + Fc :

(144)**gteprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvseddpdvqiswfvnnvevhtaqtqthredynstlrvvsalpi qhqdwmsgkefkckvnnkdlpapiertiskpkgsvrapqvyvlpppeeemtkkqvtltcmvtdfmpediyvewtnngktelnykntepvldsdgs yfmysklrvekknwvernsyscsvvheglhnhhttksfsrtpg**(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 HVEM-muIg 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 Me*d **9**(7): 911-927. 3) Gavrieli M, KM Murphy, et al. (2006) *Adv Immunol* **92**: 152-185.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C. Open under aseptic conditions.*** 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:_____

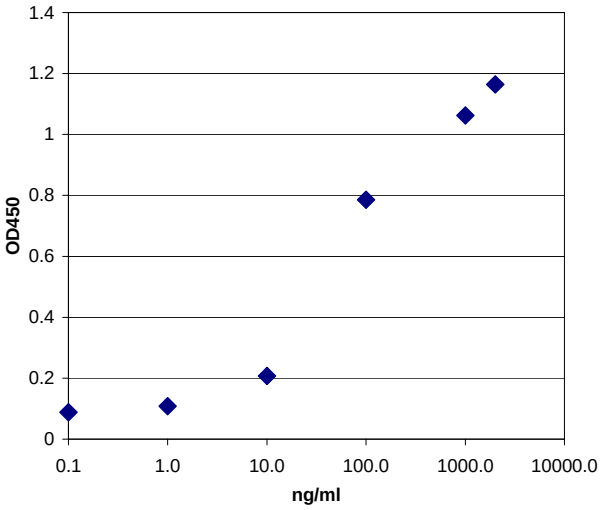
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

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



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