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Human CD252(OX40L)-muCD8 Fusion Protein*

CATALOG#: 512-820 (Preservative-free)

QUANTITY: 25 µg

CONCENTRATION: 0.5 mg/ml

Molecular Structure: A soluble molecule consisting of the extracellular domain (132 aa) of human CD134L fused to the extracellular domain (167aa) of murine CD8 alpha.

Transfectant Cell Line: CHO

INFORMATION: Human CD134L (OX-40 Ligand) is a type II membrane protein with homology to TNF which is expressed on activated B cells and activated endothelial cells. CD134L binds to CD134 present on activated T cells, providing a costimulatory signal (1). This pathway seems to be more effective for costimulation of CD4+ helper T cells than for CD8+ effector T cells (4). Blockade of this interaction in mouse abrogated immunological effects in several models of inflammation and rejection (5,6,7,8). CD134L-muCD8 fusion protein binds to CD134 positive cells in Flow cytometry.

References: 1) W. R. Godfrey, et al, (1994) *J Exp Med* 180: 757-763. 2) L.M. Higgins, et al, (1999) *J Immunol* 162: 486-493. 3) A.D. Weinberg, et al, (1999) *J Immunol* 162: 1818-1826. 4) V.Y. Taraban, et al, (2002) *Eur J. Immunol.* 32: 3617-3627. 5) V. Malmstrom, et al, (2001) *J Immunol* 166: 6972. 6) C. Nohara, et al, (2001) *J Immunol* 166: 2108-2115. 7) X. Yuan, et al, (2003) *J Immunol* 170: 2949-2955. 8) L. Tian, et al, (2002) *Transplantation* 74(1): 133-138.

STORAGE CONDITIONS: Store at 2 - 5°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: Fusion protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity chromatography. Product was 0.2 µm filtered and vialled under aseptic conditions.

PERFORMANCE: Five x 10⁵ cultured human HPB-MLT cells per tube were washed and incubated 45 minutes on ice with 80 µl of CD252-muCD8 at a concentration of 5 µg/ml. Cells were washed twice and incubated with 2^o reagent anti-mouse CD8α/R-PE (Catalog #260-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.28 log₁₀ fluorescent units. Binding was blocked when the reagent was pre incubated with a 20-fold excess of CD134-muIg (Catalog # 513-020).

*This Product is intended for Laboratory Research use only.

Binding of recombinant CD252-muCD8 + anti-muCD8/PE to human HPB-MLT cells

