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## Human CD137L-muCD8/Biotin *Fusion Protein*\*

CATALOG#: 503-030

QUANTITY: 25 ug

CONCENTRATION: 0.40 mg/ml

**Molecular Structure:** A soluble fusion protein consisting of the extracellular domain (184aa) of human CD137 Ligand fused to the extracellular domain (167aa) of murine CD8 alpha.

**Transfectant Cell Line:** CHO

**INFORMATION:** Human CD137 Ligand is a type II transmembrane protein constitutively expressed by monocytes, B cells and neuroblastoma cells (1). Binding of CD137 (4-1BB) to CD137L induces monocyte activation (2). Human CD137L-muCD8 binds to CD137 on human cells and is blocked by CD137-huIg fusion protein.

**References:** 1) M.R. Alderson, et al, (1994) Eur J Immunol **24**: 2219-2227. 2) J. Langstein, et al, (1998) J Immunol **160**: 2488-2494.

**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, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Fusion protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate by desalting column.

**PERFORMANCE:** Cultured human CEM cells were stimulated 1 day in the presence of 10 ng/ml PMA and 1 mM Ionomycin. Five x 10<sup>5</sup> cells per tube were washed and incubated 45 minutes on ice with 80 µl of CD137L-muCD8/Biotin at a concentration of 10 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Streptavidin/R-PE (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.04 log<sub>10</sub> fluorescent units when compared to a buffer control at a similar concentration. Binding was blocked when reagent was pre incubated 30 minutes with a 10-fold excess of CD137-huIg (Catalog #502-020).

\*Research use only. Not for use in Diagnostic procedures.

**Binding of CD137L-muCD8/Biotin +SA/PE to stimulated human CEM cells**

