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please quick spin vial before opening

## Human CD70-muCD8 Fusion Protein\*

**CATALOG#:** 537-820 (Preservative-free)

**QUANTITY:** 25 µg

**CONCENTRATION:** 0.5 mg/ml

**Molecular Structure:** A soluble molecule consisting of the extracellular domain (167aa) of murine CD8 alpha fused to 146 (c-term) amino acids of the extracellular domain of human CD70, with a predicted monomeric weight of 34.8 kd.

**Transfectant Cell Line:** CHO

**INFORMATION:** Human CD70 (TNFSF7) is the ligand for CD27 (TNFRSF7) and is notably absent on resting lymphocytes. CD70 is expressed after activation on about 20% of T cells and on about 70% of B cells. Recombinant CD70-muCD8 binds to cell surface CD27 on human peripheral blood leukocytes.

**References:** R.Q. Hintzen, et al, (1994) J Immunol **152**: 1762-1773. M.R. Bowman, et al, (1994) J Immunol **152**: 1756-1761. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1137-1138. K. Agematsu, et al, (1995) J Immunol **154**: 3627-3635.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Open under aseptic conditions. Freeze/Thawing is not recommended. Ship Date: \_\_\_\_\_

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

**PRODUCTION:** Fusion protein from culture supernatant of CHO cell transfectants grown in protein free media was purified using size exclusion and affinity chromatography. Product was 0.1 µm filtered and vial under aseptic conditions.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of recombinant CD70-muCD8 at **10 µg/ml**. Cells were washed twice and incubated with 2° reagent anti-Mouse CD8α/R-PE (Catalog #260-050), after which they were washed three times, fixed and analyzed by FACS. A net **57%** sub population of the cells stained positive with a mean shift of **1.15 log<sub>10</sub>** fluorescent units when compared to a buffer control. Binding was blocked when reagent was first pre incubated with an excess of anti-CD70 antibody (Cat #222-020).

\* **Research Use Only. Not for use in Diagnostic procedures.**

**Binding of CD70-muCD8 to CD27+ human PBMC**

