

## PERFORMANCE DATA SHEET

1818

# Human CD137(4-1BB) huIg/FITC Fusion Protein\*

For maximal recovery of contents  
please quick spin vial before opening

**CATALOG#:** 502-040

**QUANTITY:** 50 Tests (use 1.6µl conc stock per  $5 \times 10^5$  cells) **VOLUME IN VIAL:** 80 µl

**Molecular Structure:** A soluble 55 kd fusion protein consisting of the extracellular (186aa) domain of human CD137 (4-1BB) fused to human IgG1 Fc (4).

**Transfectant Cell Line:** CHO

**INFORMATION:** Human CD137 (4-1BB) is expressed on activated T cells within 24-48 hours of activation (3). CD137 is a type I membrane protein and a member of the tumor necrosis factor receptor superfamily (1,2). CD137 appears to be important for T cell proliferation and survival (4). CD137 huIg fusion protein blocks binding of anti-human CD137 to activated CEM human tumor cells.

**References:** (1) M.R. Alderson, et al, (1994) Eur J Immunol **24**: 2219-2227. (2) H.J. Gruss, and S.K. Dower, (1995) Blood **85**: 3378-3404. (3) B.A. Garni-Wagner, et al, (1996) Cellular Immunol **169**: 91-98. (4) H. Schwarz, et al, (1996) Blood **87**: 2839-2845.

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

**PRODUCT STABILITY:** Product should retain activity for at least 12 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:** Human CD137 Ig fusion protein was Protein A purified from (low FBS containing) tissue culture supernatant of CHO transfectants. Purified fusion protein was reacted with FITC. Unconjugated FITC was removed from conjugate by diafiltration. The protein/FITC conjugate is at a concentration of **0.5 mg/ml**.

**PERFORMANCE:** Five x 10<sup>5</sup> human **Raji** cells were washed and pre incubated with 20 µl of 0.25mg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of CD137-huIg/FITC at a **1:50** dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.53** log<sub>10</sub> fluorescent units when compared to a buffer control at a similar concentration. Binding was blocked when cells were pre incubated with 20µl of 100µg/ml unlabeled recombinant CD137-huIg (Catalog #502-020).

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

**Binding of CD137-huIg/FITC to human Raji cells**

