

PERFORMANCE DATA SHEET

1819

For maximal recovery of contents
please quick spin vial before opening

Human CD137(4-1BB) huIg *Fusion Protein**

CATALOG#: 502-820 (Preservative Free)

QUANTITY: 25 µg

CONCENTRATION: 0.5 mg/ml

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. 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. Product was sterile filtered and vialled under aseptic conditions.

PRODUCTION: Product was Protein A purified from (low FBS containing) tissue culture supernatant of CHO transfectants. Purity was >95% by SDS-PAGE with less than 1% Bovine Immunoglobulin. Product was 0.2µ sterile-filtered and vialled under aseptic conditions

PERFORMANCE: Five x 10⁵ human **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of CD137-huIg at **5 µg/ml**. Cells were washed twice and incubated with 2^o reagent Goat anti-human IgG/FITC, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.48** log₁₀ fluorescent units when compared to a buffer control at a similar concentration. Binding was blocked when reagent was pre incubated 30 minutes with CD137L-muCD8 (Catalog #503-020) at a concentration of 50 µg/ml.

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

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