PERFORMANCE DATA SHEET
2010

Human CD28-muIg *Fusion Protein**
(also binds to mouse CD80/CD86)

For maximal recovery of contents please quick spin vial before opening

CATALOG#: 508-020
QUANTITY: 25 μg **CONCENTRATION: 0.5 mg/ml**

Molecular Structure: A soluble fusion protein consisting of the extracellular (134aa) domain of human CD28 fused to murine IgG2a Fc (233aa).
Transfectant Cell Line: CHO

Immunochemistry Applications: Blocking Antibody binding to CD28, Component for ELISA use

Information: Human CD28 is an important costimulatory molecule found on all $CD4^+$ T cells and on about half of the $CD8^+$T cells. T cell activities attributed to CD28 include, prevention of anergy, induction of cytokine gene transcription, stabilization of cytokine mRNAs and activation of $CD8^+$ cytotoxic T lymphocytes. The ligands for CD28, identified as CD80 (B7-1) and CD86 (B7-2), are immunoglobulin superfamily monomeric transmembrane glycoproteins of 60 kd and 80 kd, respectively.
References: (1.) M.K. Jenkins & J.G. Johnson, (1993) Curr Opin Immunol 5: 361-367. (2.) 61st Forum in Immunology, (1995) Res Immunol 146: 127-205. (3.) I. Kariv, A. Truneh & R.W. Sweet, (1996) J Immunol 157: 29-38.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C***. Freeze/Thawing is not recommended.

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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Human CD28-muIg fusion protein was purified from (low FBS containing) tissue culture supernatant of CHO transfectants by Protein A and size exclusion chromatography.

PERFORMANCE: CD28-muIg was tested for activity and quantitated in EIA. Fusion protein was captured using Goat-anti-mouse antibody coated plate. After 45 minute incubation, plates were washed twice and an excess of Mouse Ig was added to completely block the plate. Anti-CD28/Biotin (cat #177-030, 1 μg/ml) followed by Streptavidin/HRP, and TMB/H_2O_2 were used for detection. Fusion protein was detectable at 4 ng/ml in this assay.

This Product is intended for Laboratory Research use only.

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