

PERFORMANCE DATA SHEET

2203



Human CD278(ICOS)-muIg/Biotin *Fusion Protein**

For maximal recovery of contents
please quick spin vial before opening

CATALOG#: 517-030

QUANTITY: 25 µg

CONCENTRATION: 0.5 mg/ml

Molecular Structure: A soluble molecule consisting of the extracellular (121aa) domain of mature human ICOS fused to the murine IgG2a Fc (232 aa). Predicted monomeric weight is 42.8 kd (amino acid composition only).

Transfectant Cell Line: CHO

INFORMATION: The inducible costimulator (ICOS, T cell activation molecule H4) is similar to human CD28 (24% homology), and plays an analogous role in the T cell activation process. Each secondary signal from CD28 or ICOS results in a discrete cytokine secretion profile displayed by the activated T cell.¹ Both activation processes are effectively down regulated by CD152 (CTLA-4) engagement.² Human GL50 is a member of the B7 family sharing ~20% homology with CD80 (B7-1) and CD86 (B7-2), and has been shown to be a ligand for ICOS.³ ICOS-muIg recombinant protein binds to recombinant GL50-muIg in EIA.

References: Beier, K.C., R.A. Kroczek, et al. 2000, *Eur J Immunol.* **30**(12):3707-3717. ² Riley, J.L., C.H. June, et al. 2001, *J. Immunol.* **166**: 4943-4948. ³ Ling, V., M. Collins, et al. 2000, *J. Immunol.* **164**: 1653-1657. ⁴ Ling, V., M. Collins, et al. 2001, *J. Immunol.* **166**: 7300-7308. ⁵ A.J. McAdam, et al. (2000) *J Immunol* **165**: 5035-5040.

STORAGE CONDITIONS: *Store at 2 - 5°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, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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

PERFORMANCE: CD278(ICOS)-muIg/Biotin was tested for ability to detect Goat-anti-Mouse-captured CD275(ICOSL)-muIg (cat# 575-020) in EIA utilizing Streptavidin/HRP detection and TMB/H₂O₂ substrate chromagen.

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

Binding of ICOS-muIg/Biotin to captured ICOS Ligand

