

PERFORMANCE DATA SHEET

2326

Human CD86(p2)-muIg /Biotin Fusion Protein*

For maximal recovery of contents
please quick spin vial before opening

CATALOG#: 579-030

QUANTITY: 25 µg

CONCENTRATION: 0.5 mg/ml

Molecular Structure: A soluble fusion protein consisting of the extracellular (224 aa) domain of human CD86 fused to murine IgG2a Fc region. This molecules contains 1 *amino acid polymorphism* when compared to Genebank sequence HUMB72A: v(162)i, This residue has not been implicated in the CD86-CD152 binding site(5).

CD86 EC (224 aa):

(1)aplkiqayfnetadlpcqfansqnqslselvfwqdqenlvnevygkekfdsvhskymgrtsfdsdswtrlhnlqikdkglyqcii(90)rhkkptg(97)virihqmnselvlanfsqpeivpisnitenvylnltcssihgyepkkmsvllrtnkstieydg(162)mqksqdnvtelydvsislsvsfpdvtsnmtifciletdktrllsspsfieleppppdhip

+linker (2 aa): **gt**

Murine IgG2a Fc +Hinge (233 aa):

eprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvsseddpdqiswfvnnevhtaqtqthredynstlrsvsalpiqhqdwmvgkefkckvnnkdlpapiertiskpkgsvrapqvyvlpppeemtkkqviltcmvtdfmpediyvewtngktelnykntepvldsdgsyfmysklrvckknwvcrnsyscvvheglhnhhtkfsrtpg

Predicted monomeric molecular weight: 52.2 kd. The molecule is dimeric and runs at about 115 kd in SDS-PAGE under native conditions.

Transfectant Cell Line: CHO

INFORMATION: Human CD86 (B7-2) is a costimulating ligand for CD28 and CTLA-4. CD86 is expressed on activated B cells and blood monocytes(3).

References: 1. C. Caux, et al, (1994) J Exp Med **180**: 1841-1847. 2. C.B. Thompson, (1995) Cell **81**: 979-982. 3. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 703-705. 4. D. Mauri, et al, (1995) J Immunol **155**: 118-127.

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

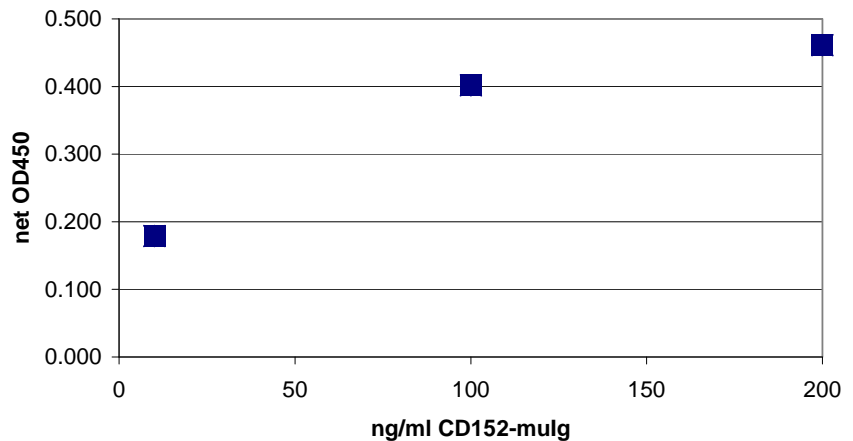
PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 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 affinity and size exclusion chromatography), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate by size exclusion chromatography.

PERFORMANCE: CD86(P2)-muIg/Biotin was reactive at **1 µg/ml** as a 1^o detector in Enzyme Immuno Assay utilizing a Goat anti-Mouse Ig coated plate for capture and a dose response of CD152-muIg/Biotin recombinant protein (Catalog #501-020) as an analyte. followed by Streptavidin/HRP and TMB/H₂O₂ substrate chromagen for detection.

Binding of CD86(P2)-mulg/Biotin to captured CD152-mulg(#501-020)



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