

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

Human CD137/4-1BB/TNFRSF9 (C-Fc)

Catalog Number: 808801, 808802

Size: 25 ug, 100 ug

Target Name: TNFRSF9, 4-1BB, CD137

Regulatory Status: RUO

Product Details

Application: ELISA, BLI Format: Liquid, Purified Expression Host: CHO

Species: Human

Sources: Recombinant Human CD137/4-1BB Protein (Leu24-Gln186) with C-terminus Fc-tag is

expressed in CHO cell.

Accession Number: Q07011

Molecular Weight: The protein has a predicted molecular weight of 43.5 kDa. Under DTT-reducing

conditions, it migrates at approximately 50-60 kDa on SDS-PAGE.

Affinity Tag: C-Fc

Purity: >95% based on SDS-PAGE under reducing condition

Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered

Endotoxin level: Not tested

Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a

lot-specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4° C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <= -70° C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

Background Information

CD137 (4-1BB) is a co-stimulatory glycoprotein from the tumor necrosis factor (TNF) receptor superfamily, expressed on activated CD4+ and CD8+ T cells. It binds to its ligand, 4-1BBL, found on antigen-presenting cells like macrophages and activated B cells. The interaction between CD137 and 4-1BBL triggers signaling through tumor necrosis factor receptor-associated factors (TRAFs), activating pathways like NF-kappaB and cytokine production. This process promotes T cell activation, proliferation, and immune responses, as well as monocyte and B-cell activation. CD137 and 4-1BBL are present in various human tumors, suggesting they may influence tumor progression. Crosslinking CD137 has shown promise in enhancing anti-tumor immunity in preclinical models, and agonistic anti-CD137 antibodies are currently being tested in phase I clinical trials. Additionally, soluble CD137 (sCD137) can antagonize the membrane-bound form's function, reducing T cell

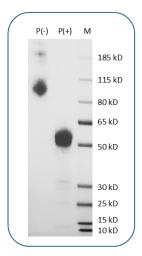


proliferation and IL-2 secretion.

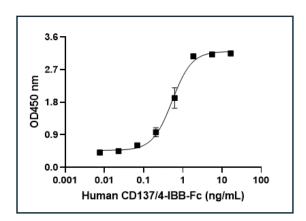
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Product Data



Human 4-1BB Protein (C-Fc) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95% under reducing conditions.



Human 4-1BBL Protein (N-His) is coated at 2ug/mL (200ng/well). Human 4-1BB (C-Fc) can bind human 4-1BBL in dose-dependent manner with the ED50 of 0.5-3 ng/mL