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CD137 Recombinant Protein

CATALOG NUMBER: 90-410

Specifications	
SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Human CD137 (aa 19-184) is fused at the C-terminus to a His-tag.
FUSION TAG:	His Tag
APPLICATIONS:	This recombinant proteins is for research use only.
BIOLOGICAL ACTIVITY:	N/A
Duamantia	
Properties	
PURITY:	≥95% (SDS-PAGE)
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from a concentrated sterile solution containing 50mM Tris-HCl buffer (pH 8.0) and 500mM NaCl.
STORAGE CONDITIONS:	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Additional Info	
ALTERNATE NAMES:	Tumor Necrosis Factor Receptor Superfamily Member 9, TNFRSF9, 4-1BB, 4-1BB Ligand Receptor T Cell, Antigen 4-1BB Homolog, T Cell Antigen ILA, CD137 Antigen, CDw137, ILA, MGC2172
ACCESSION NO.:	AAH06196
PROTEIN GI NO.:	13623201

Background

Human CD137 (4-1BB) is a costimulatory molecule of the tumor necrosis factor (TNF) receptor superfamily. The glycoprotein 4-1BB is expressed mainly on activated CD4+ and CD8+ T cells and binds to a high-affinity ligand (4-1BBL) expressed on several antigen-presenting cells such as macrophages and activated B cells. Upon ligand binding, 4-1BB is associated with the tumor receptor-associated factors (TRAF), the adaptor protein and mediates downstream signaling events including the activation of NF-kappaB and cytokine production. 4-1BB signaling either by binding to 4-1BBL or by antibody ligation delivers signals for T cell activation and growth as well as monocyte proliferation and B cell survival, and plays a important role in the amplification of T cell-mediated immune responses. In contrast, it can also enhance activation-induced T cell apoptosis when triggered by engagement of the TCR/CD3 complex. In addition, the 4-1BB/4-1BBL costimulatory pathway has been shown to augment secondary CTL responses to several viruses and increase antitumor immunity. 4-1BB is therefore a promising candidate for immunotherapy of human cancer.

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