

TECHNICAL DATA SHEET

Recombinant Human 4-1BB Ligand (Carrier-free)

Catalog Number: 21-7135

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human 4-1BB Ligand (Carrier-free)

DESCRIPTION

4-1BB Ligand, also known as TNFSF9, is a type II surface glycoprotein expressed on activated T-cells and antigen presenting cells (APCs). As a member of the TNF superfamily, it functions in promoting CD4+ and CD8+ T cell cytokine production. 4-1BB/4-1BBL signaling also enhances cell proliferation and T cell effector function. A recent study shows that 4-1BBL expressed on T cells can restrict effector T cell development under tolerogenic conditions.

MOLECULAR MASS

Recombinant Human 4-1BB Ligand consists of 185 amino acids resulting in a 19.5 kDa protein.

AMINO ACID SEQUENCE

MREGPELSPD DPAGLLDLRQ GMFAQLVAQN VLLIDGPLSW YSDPGLAGVS LTGGLSYKED TKELVAKAG VYYVFFQLEL RRVVAGEGSG
SVSLALHLQP LRSAGAAAL ALTVDLPPAS SEARNSAFGF QGRLLHLSAG QRLGVHLHTE ARARHAWQLT QGATVGLGFR VTPEIPAGLP SPRSE

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

The ED₅₀ of 5-10 ng/ml is determined by measuring dose-dependent stimulation of human IL-8 in PBMC. Results may vary due to differences between PBMC donors.

RESEARCH AREAS

TNF Superfamily, Apoptosis, Angiogenesis & Cardiovascular, Immune System, Transplantation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Cannons JL, Lau P, Ghuman B, DeBenedette MA, Yagita H, Okumura K, and Watts TH. 2001. J Immunol. 167(3): 1313-1324. Eun SY, Lee SW, Xu Y and Croft M. 2015. J Immunol. 194: 134-141. Kwon B, Kim BS, Cho HR, Park JE and Kwon BS. 2003. Exp Mol Med. 35(1): 8-16.

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