

## 32-8904: Recombinant Human 4-1BB Ligand/4-1BBL/TNFSF9/CD137L (N-Fc)

**Gene :** TNFSF9

**Gene ID :** 8744

**Uniprot ID :** P41273

### Description

Source: Human Cells.

MW :46.1kD.

Recombinant Human 4-1BB Ligand is produced by our Mammalian expression system and the target gene encoding Arg71-Glu254 is expressed with a Fc tag at the N-terminus. Tumor necrosis factor ligand superfamily member 9, also known as 4-1BBL, is a member of the the tumor necrosis factor family. It is a 254 amino acids cytokine that is expressed in brain, placenta, lung, skeletal muscle and kidney. TNFSF9 has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells, and is thought to be involved in T cell-tumor cell interaction.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of PBS,pH7.4.

**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** MDPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYV  
DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE  
PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGSFFLYSKLT  
VDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGKIEGRREGPELSPDDPAGLLDLRQGMFAQ  
LVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDTKELVVAAGVYYYVFFQLELRVVGEGSGS  
VSLALHLQPLRSAAGAAALALTVDLPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHA  
WQLTQGATVLGLFRVTPEIPAGLPSRSE

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.