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# 32-8294: Recombinant Human 4-1BB Ligand/4-1BBL/TNFSF9/CD137L (C-6His)

**Gene :** TNFSF9
**Gene ID :** 8744
**Uniprot ID :** P41273

## Description

Source: E. coli.
MW :20.6kD.
Recombinant Human 4-1BB ligand is produced by our E.coli expression system and the target gene encoding Arg71-Glu254 is expressed with a 6His tag at the C-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

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| **Amount :** | 10 μg / 50 μg |
| **Content :** | Lyophilized from a 0.2 μm filtered solution of 20mM PB,150mM NaCl,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 :** | MREGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDTKELVVAKAGVYY VFFQLELRRVVAGEGSGSVSLALHLQPLRSAAGAAALALTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHL HTEARARHAWQLTQGATVLGLFRVTPEIPAGLPSPRSELEHHHHHH |

## Application Note

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

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***