

## 32-8919: Recombinant Mouse TNF ligand superfamily member 9/TNFSF9(N-10His)

**Gene :** Tnfsf9  
**Gene ID :** 21950  
**Uniprot ID :** P41274

### Description

Source: Human cells.  
MW :25.6kD.

Recombinant Mouse 4-1BB Ligand is produced by our Mammalian expression system and the target gene encoding Arg104-Glu309 is expressed with a 10His 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. Mouse 4-1BBL cDNA encodes a 309 amino acid residues (aa) protein with an 82 aa N-terminal cytoplasmic domain, a 21 aa transmembrane domain and a 206 aa C-terminal extracellular domain. The extracellular domain of 4-1BBL has a tertiary structure similar to that of other TNFSF members, but shares only low aa sequence homology (14-16%). 4-1BBL is predominantly expressed on activated antigen presenting cells (APCs) such as B cells, macrophages and dendritic cells (DCs). It is also expressed on most T and B lymphoma cell lines. 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 :** HHHHHHHHHHGGGSGGGSGGGSSIEGRRTPEPRPALTITTPNLGTRENNADQVTPVSHIGCPNTTQQGSPVFA  
KLLAKNQASLCNTTLNWHSDGAGSSYLSQGLRYEEDKELVVDSPGLYYVFLELKLSPFTTNTGHKVQGWVS  
LVLQAKPQVDDFDNLALTVELFPCSMENKLVDRSWSQLLLLKAGHRLSVGLRAYLHGAQDAYRDWELSYNT  
TSFGLFLVKPDNPWE

### Application Note

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