

## 32-8990: Recombinant Mouse Butyrophilin-like Protein 2/BTNL2 (C-6His)

**Gene :** Btl2  
**Gene ID :** 547431  
**Uniprot ID :** O70355

### Description

Source: Human Cells.  
MW :48.6kD.

Recombinant Mouse Butyrophilin-like Protein 2 is produced by our Mammalian expression system and the target gene encoding Asp27-Ser452 is expressed with a 6His tag at the C-terminus. Butyrophilin-like 2 (BTNL2) is a member of the BTN/MOG Ig-superfamily and functions as a negative regulator of immune cell activation. Mouse BTNL2 is type I transmembrane glycoprotein that contains an extracellular domain (ECD), a transmembrane region and a short cytoplasmic domain. The ECD features two V-type Ig-like domains, two C-type Ig-like domains, and four glycosylation sites. BTNL2 is expressed in epithelial cells of the small intestine, colonic dendritic cells, and in cells of the lymph node. BTNL2 expression is upregulated in T cells following activation, a characteristic BTNL2 shares with the homologous B7 family of costimulatory molecules. BTNL2 negatively regulates T cells by inhibiting proliferation and inflammatory cytokine secretion. It also increases the expression of FoxP3 in T cells to promote regulatory T cell development. Single nucleotide polymorphisms in BTNL2 are associated with a risk for sporadic prostate cancer, rheumatoid arthritis, sarcoidosis, ulcerative colitis, and other inflammatory diseases.

### 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 :** DDFRVVGNPLPILAKVGEDALLTCQLLPKRRTAHMEVRWYRSDPDMPVIMYRDGAEVTGLPMEGYGGRAEWM  
EDSTEEGSVALKIRQVQPSDDGQYWCRFQEGDYWRETSVLLQVAALGSSPNIHVEGLGEGEVQLVCTSRGWF  
PEPEVHWEGIWGEKLMFSFSENHVPGEDGLFYVEDTLMVRNDSVETISCFIYSHGLRETQEATIALSERLQTELAS  
VSVIGHSPSPVQVGENIELTCHLSPQTDQNLVLRWLRSRYPVAVHYANGTHVAGEQMVEYKGRSLVTD  
IHEGKLTQIHNARTSDEGQYRCLFGKDGQYQEARVDVQVMAVGSTPRITREVLKDGGMQLRCTSDGWFFRP  
HVQWRDRDGTMPSEAFQGSQELFQVETLLLVTNGSMVNVTCISLPLGQEKARFPLSHHHHHH

### Application Note

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