

## 32-8051: Recombinant Human B-Cell Linker Protein/BLNK (C-6His)

**Gene :** BLNK  
**Gene ID :** 29760  
**Uniprot ID :** Q8WV28

### Description

Source: E.coli.  
MW :51.5kD.

Recombinant Human B-Cell Linker Protein is produced by our E.coli expression system and the target gene encoding Met1-Ser456 is expressed with a 6His tag at the C-terminus. B-Cell Linker Protein (BLNK) is a cell membrane protein which contains 1 SH2 domain. BLNK is expressed in B cells and fibroblast cell lines, playing a important role in B cell receptor signaling. BLNK as a central linker protein, downstream of the B-cell receptor (BCR), bridges the SYK kinase to a multitude of signaling pathways and regulating biological outcomes of B-cell function and development. BLNK associates with the activation of ERK/EPHB2, MAP kinase p38 and JNK, modulates AP1, NF-kappa-B and NFAT activation. BLNK involves in BCR-mediated PLCG1 and PLCG2 activation and Ca<sup>2+</sup> mobilization and is required for trafficking of the BCR to late endosomes. BLNK deficiency results in agammaglobulinemia type 4 and much more profound block in B-cell development.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 1mM DTT, pH 7.2.  
Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.  
**Storage condition :** 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 :** MDKLNKITVPASQKLRQLQKMHVDIKNNEGIMNKIKLKVKAPPSVPRRDYASESPADEEQWSDDFDSDYE  
NPDEHSDSEMYVMPAEENADDSYEPPEQETRPVHPALPFARGEYIDNRSSQRHSPFSKTLPSKPSWPSEKA  
RLTSTLPALTALQKQVPPKPKLLEDEADYVVPVEDNDENYIHPTSSPPPEKAPMVRSTKPNSSTPASPPG  
TASGRNSGAWETKSPPPAAPSPLPRAGKKPTTLPKTPVASQQNASSVCEEKPIPAERHRGSSHRQEAQSPV  
PPAQKQIHQKPIPLPRFTEGGNPTVDGPLPSFSSNSTISEQEAGVLCWPYAGACDRKSAAEALHRSNKDGSFLI  
RKSSGHDSKQPYTLVFFNKRYYNIPVRFIEATKQYALGRKKNNGEEYFGSVAEIRNHQHSPLVLIDSQNNTKDS  
TRLKYAVKVSLEHHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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