

## 32-7512: Recombinant Human Butyrophilin Subfamily 3 Member A1/BTN3A1/CD277 (C-Fc)(Discontinued)

**Gene :** BTN3A1  
**Gene ID :** 11119  
**Uniprot ID :** O00481

### Description

Source: Human Cells.

MW :50.8kD.

Recombinant Human Butyrophilin Subfamily 3 Member A1 is produced by our Mammalian expression system and the target gene encoding Gln30-Gly254 is expressed with a Fc tag at the C-terminus. Butyrophilin Subfamily 3 Member A1 (BTN3A1/CD277) is a type I transmembrane glycoprotein member of the Ig superfamily. It is expressed on a wide variety of immune cells. Similar to BTN3A2 and BTN3A3, BTN3A1 is composed of an extracellular N-terminal IgV and a membraneproximal IgC domain followed by a transmembrane domain and a cytoplasmic tail. These Ig domains are also found in B7 family costimulatory molecules, suggesting structural and functional similarities between the two protein families. BTN3A1 acts as a critical protein for the activation of V gamma 9V delta 2 T cells following detection of distressed cells. The anti-tumor responses of V gamma 9V delta 2 T cells may be enhanced with agonistic anti-BTNA3 antibodies.

### 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 :** QFSVLGSPGPILAMVGEDADLPCHLFPTMSAETMELKQVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRD  
GITAGKAALRIHNVTASDSGKYLQYFQDGFYEKALVELKVAALGSDLHVDVKGYKDGGIHLECRSTGWYPQP  
QIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSTIRSSLLGLEKTASISADPFFRSAQRWIA  
ALAGIEGRMDPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVD  
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS  
RDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSV  
MHEALHNHYTQKLSLSLSPGK

### 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.