

32-8896: Recombinant Mouse Butyrophilin Subfamily 1 Member A1/BTN1A1 (C-6His)

Gene : Btn1a1
Gene ID : 12231
Uniprot ID : Q62556

Description

Source: Human Cells.
MW :25.4kD.

Recombinant Mouse Butyrophilin Subfamily 1 Member A1 is produced by our Mammalian expression system and the target gene encoding Ala27-Trp247 is expressed fused with a 6His tag at the C-terminus. Mouse Butyrophilin subfamily 1 member A1(BTN1A1) is a type I transmembrane glycoprotein which is a member of the Ig superfamily. The BTN1A1 ECD displays two predicted IgV and IgC domains as do B7 and Skint proteins which interact with other Ig superfamily members. BTN1A1 binds to xanthine oxidoreductase (XOR). This interaction stabilizes the association of XOR with the milk fat globule membrane and appears to be essential in the control of milk fat globule secretion. In vitro, BTN1A1 inhibits the proliferation of CD4 and CD8 T-cells activated by anti-CD3 antibodies, T-cell metabolism and IL-2 and IFN- gamma secretion. Furthermore, in vivo, BTN1A1 has a protective effect against the development of experimental autoimmune encephalomyelitis (EAE). Because butyrophilins are structurally related to B7 proteins and are functionally implicated in immune regulation, they may represent an emerging family of costimulatory/inhibitory molecules.

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 : AAPFDVTAPQEPVLALVGSDAELTCGFSPNASSEYMELLWFRQTRSTAVLLYRDGQEQEQQMTEYRGRATLA TAGLLDGRATLLIRDVRVSDQGEYRCLFKDNDDFEEAAVYLKVAAVGSDPQISMTVQENGEMELECTSSGWYP EPQVQWRTGNREMLPSTSESKKHNEEGLFTVAVSMMIRDSSIKNMSCCIQNILLGQGKEVEISLPAPFVPRLTP WHHHHHH

Application Note

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