

32-7466: Recombinant Human Butyrophilin 1A1/BTN1A1 (C-6His)

Gene : BTN1A1

Gene ID : 696

Uniprot ID : Q13410

Description

Source: Human Cells.

MW :24.98kD.

Recombinant Human Butyrophilin 1A1 is produced by our Mammalian expression system and the target gene encoding Ala27-Arg242 is expressed with a 6His tag at the C-terminus. Butyrophilin Subfamily 1 Member A1 (BTN1A1) is the major protein associated with fat droplets in the milk. It belongs the immunoglobulin superfamily. BTN1A1 acts as a specific membrane-associated receptor for the association of cytoplasmic droplets with the apical plasma membrane. It is localized to the major histocompatibility complex (MHC) class I region of 6p. It may have arisen relatively recently in evolution by the shuffling of exons between 2 ancestral gene families. It is shown that BTN1A1 inhibits the proliferation of CD4 and CD8 T-cells activated by anti-CD3 antibodies, T-cell metabolism and IL2 and IFNG secretion.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

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 : APFDVIGPPEPILAVVGEDAELPCRLSPNASEHLELRWFRKKVSPAVLVHRDGREQAEQMPEYRGRATLVQD
GIAKGRVALRIRGVRVSDGGEYTCFFREDGSYEEALVHLKVAALGSDPHISMQVQENGEICTSVGWYPEPQ
VQWRTSKGEKFPSTSESRNPDEEGLFTVAASVIIRDTSAKNVSCYIQNLLLGQEKKEISIPASSLPRVDHHHHH
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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 ddH₂O. 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.