

BTN3A1 Protein, Cynomolgus, Recombinant (His & Avi), Biotinylated

General Information

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| Synonyms: | BTF5;BT3.1;BTN3.1;CD277;BTN3A1 |
| Protein Construction: | Gln1-Trp219 |
| Species: | Cynomolgus |
| Expression Host: | HEK293 Cells |
| Accession: | A0A330KWZ1 |
| Molecular Weight: | 26.5 kDa (predicted). Due to glycosylation, the protein migrates to 30-35 kDa based on Tris-Bis PAGE result. |

QC Testing

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| Biological Activity: | Immobilized Anti-BTN3A1 Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Cynomolgus BTN3A1, His Tag with the EC50 of 14.2ng/ml determined by ELISA. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The three butyrophilin BTN3A molecules, BTN3A1, BTN3A2, and BTN3A3, are members of the B7/butyrophilin-like group of Ig superfamily receptors, which modulate the function of T cells. BTN3A1 controls activation of human Vγ9/Vδ2 T cells by direct or indirect presentation of self and nonself phosphoantigens (pAg).

Reference

Rhodes DA, et al. Activation of human $\gamma\delta$ T cells by cytosolic interactions of BTN3A1 with soluble phosphoantigens and the cytoskeletal adaptor periplakin. J Immunol. 2015 Mar 1;194(5):2390-8. doi: 10.4049/jimmunol.1401064. Epub 2015 Jan 30. PMID: 25637025; PMCID: PMC4337483.
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