

For Research Use Only

Recombinant Human BTN2A1 protein (rFc Tag)



Catalog Number: Eg2259

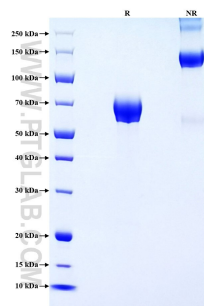
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human BTN2A1 protein Gln29-Ala248 (Accession# Q7KYR7-2) with a rabbit IgG Fc tag at the C-terminus. GeneID: 11120 Accession: Q7KYR7-2 Predicted Molecular Mass: 50.8 kDa SDS-PAGE: 55-70 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	BTN2A1, or butyrophilin subfamily 2 member A1, is a protein-coding gene that belongs to the immunoglobulin superfamily. It is located in a cluster of butyrophilin-like genes in the juxta-telomeric region of the major histocompatibility complex (MHC) on chromosome 6. The encoded protein is an integral plasma membrane protein that plays a role in lipid, fatty-acid, and sterol metabolism. The BTN2A1 gene is expressed ubiquitously, with particularly high expression in the spleen and appendix. BTN2A1 has been identified as a potential immune checkpoint that targets Vγ9Vδ2 T cell cytotoxicity against malignant cells, suggesting its involvement in immune responses.		
References	1. Carla E Cano. et al. (2021) Cell Rep. 36(2):109359. 2. Dieter Kabelitz. (2024) Cancer Immunol Res. 12(12):1662		
Synonyms	BTN2A1, BT2.1, BTF1		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human BTN2A1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.