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Product Sheet

Human BTN3A1 Protein; hFc Tag

GM-88787RP-100 / 100 μg
GM-88787RP-1000 / 1 mg

Product Information

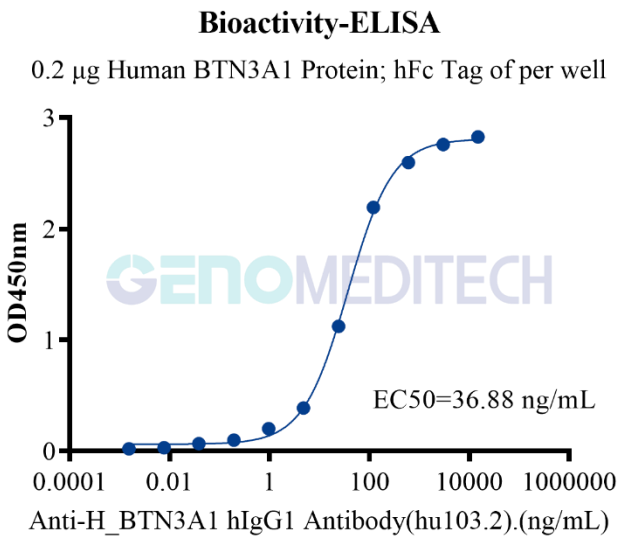
Product Name	Human BTN3A1 Protein; hFc Tag
Source	Human BTN3A1 Protein; hFc Tag (GM-88787RP) is expressed from human 293 cells (HEK-293). It contains AA Gln 30 - Gly 254 (Accession # O00481-1). This protein carries a hFc tag at the C-terminus.
Predicted MW	50.1 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	BTN3A1, CD277, BTF5
Background	BTN3A1 (CD277) is a type I transmembrane glycoprotein of the butyrophilin family within the immunoglobulin superfamily. Its ectodomain contains membrane-distal IgV and membrane-proximal IgC domains, and its cytoplasmic region carries a B30.2 domain that directly binds phosphoantigens such as the microbial metabolite HMBPP and endogenous isopentenyl pyrophosphate. Phosphoantigen binding glues the B30.2 domains of BTN3A1 and BTN2A1 together, driving an inside-out conformational change that separates their ectodomains. The BTN3A1–BTN3A2 heterodimer then cooperates with BTN2A1 to engage and dimerize the Vγ9Vδ2 T-cell receptor. This axis underlies Vγ9Vδ2 T-cell surveillance of tumors and infections and is being exploited by BTN3A-directed antibodies.

Version 4.0.26.1016

For research use only!

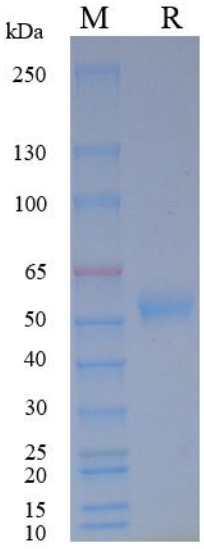
Data

Affinity



Human BTN3A1 Protein; hFc Tag (Catalog # GM-88787RP) was immobilized at 2 μg/ml (100 μl/well). Increasing concentrations of Anti-H_BTN3A1 hIgG1 Antibody(hu103.2) (Catalog # GM-52829AB) were added.

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

BTN3:Vγ9Vδ2	
TCR Knockout Jurkat Cell Line	TCR Knockout Jurkat Cell Line(CD4-)
H_Vγ9Vδ2(G115) Reporter Jurkat(TCRαβ KO) Cell Line	H_Vγ9Vδ2(MOP) Reporter Jurkat(TCRαβ KO) Cell Line
H_BTN2A1 HEK-293 Cell Line	H_BTN3A1 HEK-293 Cell Line

Anti-BTN2A1 mIgG1 Antibody(mAb 7.48)	Anti-BTN3A1 hIgG1 Antibody(mAb1)
Anti-H_BTN3A1 hIgG1 Antibody(hu103.2)	Anti-Vγ9Vδ2 TCR hIgG1 Antibody
Human BTN3A1 Protein; His Tag	Human BTN3A2 Protein; His Tag
Human BTN3A3 Protein; His Tag	

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