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Product Sheet

Human BTN3A3 Protein; hFc Tag

GM-88789RP-100 / 100 μg
GM-88789RP-1000 / 1 mg

Product Information

Product Name	Human BTN3A3 Protein; hFc Tag
Source	HHuman BTN3A3 Protein; hFc Tag (GM-88789RP) is expressed from human 293 cells (HEK-293). It contains AA Gln 30 - Trp 248 (Accession # AAH15815.1). This protein carries a hFc tag at the C-terminus.
Predicted MW	49.5 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	BTN3A3, BTF3
Background	BTN3A3 is a type I transmembrane glycoprotein of the butyrophilin family within the immunoglobulin superfamily, encoded within the major histocompatibility complex class I region. Like BTN3A1, it has extracellular IgV and IgC domains, a juxtamembrane coiled-coil region, an intracellular B30.2 domain and a distinctive C-terminal tail. A histidine-to-arginine substitution in its B30.2 pocket abolishes phosphoantigen binding, so BTN3A3 cannot sense phosphoantigens itself; instead it heterodimerizes with BTN3A1 through their juxtamembrane regions. This heteromer is more stable than the BTN3A1 homodimer and presents the BTN3A3 ectodomain for Vγ9Vδ2 T-cell receptor engagement. Beyond γδ T-cell biology, interferon-inducible BTN3A3 influences tumor progression and antiviral immunity.

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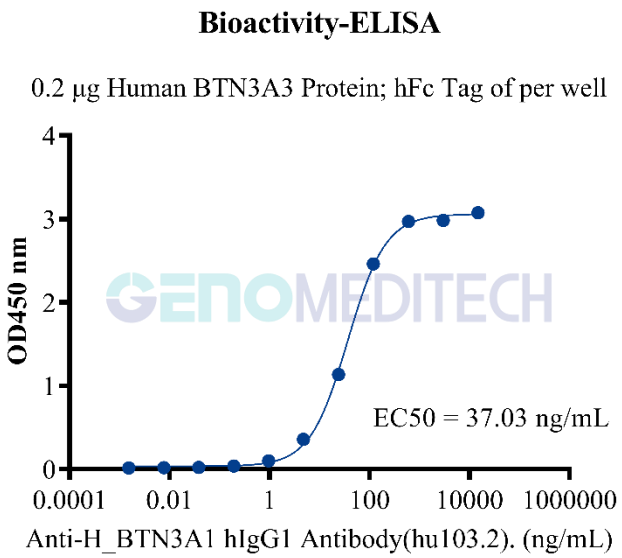
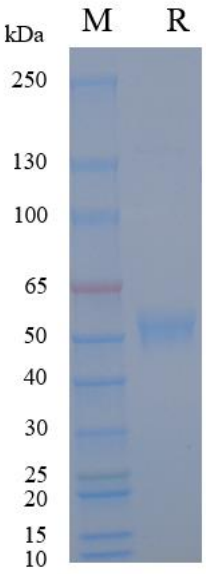
Data

Affinity



Human BTN3A3 Protein; hFc Tag (Catalog # GM-88789RP) 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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