

Recombinant Human BTN3A1/CD277 protein (His tag)

Catalog Number:PDMH100143



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Butyrophilin subfamily 3 member A1;CD277;BTN3A1;BTF5
Species	Human
Expression Host	HEK293 Cells
Sequence	Met1-Gly254
Accession	O00481
Calculated Molecular Weight	27.8 kDa
Observed molecular weight	30 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Butyrophilin Subfamily 3 Member A1 (BTN3A1/CD277) is a type I transmembrane glycoprotein member of the Ig superfamily. It is expressed on a wide variety of immune cells. Similar to BTN3A2 and BTN3A3, BTN3A1 is composed of an extracellular N-terminal IgV and a membraneproximal IgC domain followed by a transmembrane domain and a cytoplasmic tail. These Ig domains are also found in B7 family costimulatory molecules, suggesting structural and functional similarities between the two protein families. BTN3A1 acts as a critical protein for the activation of V γ 9V δ 2 T cells following detection of distressed cells. The anti-tumor responses of V γ 9V δ 2 T cells may be enhanced with agonistic anti-BTN3A1 antibodies.

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