



Recombinant Protein Technical Manual

Recombinant Human BTN3A1/CD277 Protein (Fc Tag)
RPES4075

Product Data:

Product SKU: RPES4075

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: O00481

Protein Information:

Molecular Mass: 50.8 kDa

AP Molecular Mass: 55 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Butyrophilin subfamily 3 member A1; CD277; BTN3A1; BTF5

Immunogen Information:

Sequence: Gln30-Gly254

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.