

BTN3A1/CD277 Protein, Human (HEK293)

Cat. No.:	HY-P76179
Synonyms:	Butyrophilin subfamily 3 member A1; CD277; BTN3A1; BTF5
Species:	Human
Source:	HEK293
Accession:	O00481 (Q30-G254)
Gene ID:	11119
Molecular Weight:	26-32 kDa.

PROPERTIES

Biological Activity	Immobilized Human BTN3A1, No Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for Anti-BTN3A1 Antibody, hFc Tag with the EC ₅₀ of 8.8 ng/mL determined by ELISA.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The BTN3A1/CD277 protein is involved in crucial functions related to T-cell activation and the adaptive immune response. It acts as a regulator of activated T-cell proliferation and controls the release of cytokines and IFNG by these cells. Additionally, it plays a role in mediating the response of T-cells towards infected and transformed cells that exhibit elevated levels of phosphorylated metabolites, such as isopentenyl pyrophosphate. The BTN3A1/CD277 protein functions as a homodimer.
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Caution: Product has not been fully validated for medical applications. For research use only.

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