

Recombinant Human BTN1A1/Butyrophilin Protein

Catalog No.: RP00280 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 696 Q13410

Tags

C-hFc&His

Synonyms

BTN1A1;BT;BTN;BTN1

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

50.74 kDa 60-70 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Basic Information

Description

Recombinant Human BTN1A1/Butyrophilin Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala 27 - Arg 242) of human BTN1A1/Butyrophilin (Accession $\#NP_001723.2$) fused with an Fc, $6\times$ His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit Anti-CD3-induced proliferation of Jurkat Human acute T lymphocyte leukemia cells. The ED_{50} for this effect is 0.13-0.52 ng/mL.

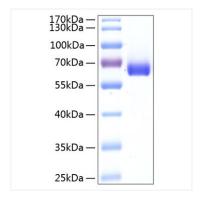
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

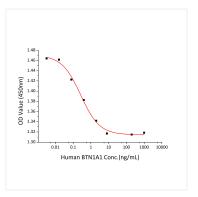
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human BTN1A1/Butyrophilin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant human BTN1A1 inhibits Anti-CD3-induced proliferation of Jurkat Human acute T lymphocyte leukemia cells. The ED_{50} for this effect is 0.13-0.52 ng/mL.