

Recombinant Human BTN1A1/Butyrophilin Protein

Catalog No.: RP00249 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 696 | Q13410 |

Tags

C-His

Synonyms

BTN1A1;BT;BTN;BTN1

Product Information

| Source | Purification |
|--------------|--------------------|
| HEK293 cells | > 97% by SDS-PAGE. |

Endotoxin

< 0.1 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 stabilizer (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 cells expression system. The target protein is expressed with sequence (Ala 27 - Arg 242) of human BTN1A1/Butyrophilin (Accession #NP_001723.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit Anti-CD3-induced proliferation of jurkat cells. The ED₅₀ for this effect is 3.35-13.4 ng/mL.

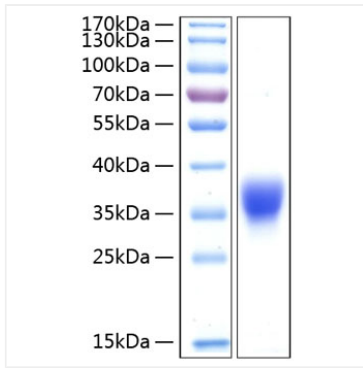
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

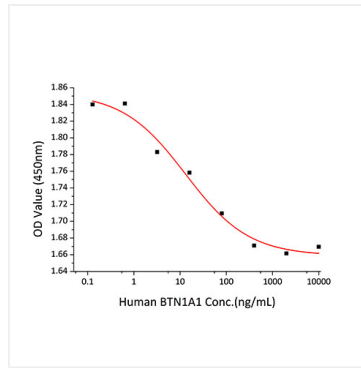
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

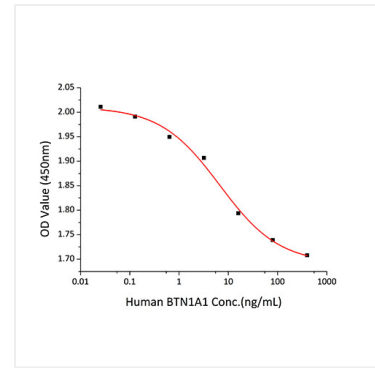
Validation Data



Active Recombinant Human BTN1A1/Butyrophilin Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 33-38 kDa.



Recombinant Human BTN1A1 inhibits Anti-CD3-induced proliferation of jurkat cells. The ED_{50} for this effect is 6.6-26.4ng/mL.



Recombinant Human BTN1A1 inhibits Anti-CD3-induced proliferation of jurkat cells. The ED_{50} for this effect is 3.35-13.4ng/mL.