Data Sheet (Cat.No.TMPK-00958)

TargetMol

BTN1A1 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	BT;BTN;Butyrophilin;BTN1A1
Protein Construction:	Ala27-Arg242
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13410
Molecular Weight:	26.9 kDa (predicted). Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Butyrophilin 1A1 (BTN1A1) is one of the membrane proteins that surrounds LD,BTN1A1 plays an important role in regulating LD synthesis via a mechanism involving membrane phospholipid composition.

Reference

Han L, et al. Knockout of butyrophilin subfamily 1 member A1 (BTN1A1) alters lipid droplet formation and phospholipid composition in bovine mammary epithelial cells. J Anim Sci Biotechnol. 2020 Jul 3;11:72. doi: 10.1186/s40104-020-00479-6. PM

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481