

BTNL6 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	EG624681;BTNL6;NG13;Butyrophilin-like 6;Gm6519
Protein Construction:	Lys29-Trp249
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	A2CG22
Molecular Weight:	30 KDa (reducing condition)
AA Sequence:	Lys29-Trp249

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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Histidine, 6% Trehalose, 4% Mannitol, 50 mM NaCl, 0.05% Tween 80, pH6.5.

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:

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-like 6 (BTNL6) is a member of the BTN/MOG Ig-superfamily and functions with BTNL1 as a regulator of immune cell proliferation. The Btnl6 gene is found only in mice. BTNL6 expression is coordinated as a heteromeric protein with BTNL1, and the presence of this complex is correlated with expansion of gamma δ T cells, especially those containing V gamma 7Vδ4 TCR. Btnl6 shows striking sequence similarity to Skint1; is also largely restricted to an epithelial tissue (the small intestine) replete with T cells. Our in-house studies showed BTNL6 co-inhibited anti-

CD3 induced IL-2 secretion on CD3+ cells.

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