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Recombinant Mouse BTNL2/Butyrophilin-like Protein 2 Protein (His Tag)

Catalog Number: PKSM041354

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Mouse

Source HEK293 Cells-derived Mouse BTNL2/Butyrophilin-like2 protein Asp27-Ser452, with

an C-terminal His

Calculated MW 48.6 kDa
Observed MW 55-65 kDa
Accession 070355

Bio-activity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

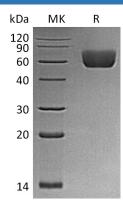
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



Background

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Butyrophilin-like 2 (BTNL2) is a member of the BTN/MOG Ig-superfamily and functions as a negative regulator of immune cell activation. Mouse BTNL2 is type I transmembrane glycoprotein that contains an extracellular domain (ECD), a transmembrane region and a short cytoplasmic domain. The ECD features two V-type Ig-like domains, two C-type Ig-like domains, and four glycosylation sites. BTNL2 is expressed in epithelial cells of the small intestine, colonic dendritic cells, and in cells of the lymph node. BTNL2 expression is upregulated in T cells following activation, a characteristic BTNL2 shares with the homologous B7 family of costimulatory molecules. BTNL2 negatively regulates T cells by inhibiting proliferation and inflammatory cytokine secretion. It also increases the expression of FoxP3 in T cells to promote regulatory T cell development. Single nucleotide polymorphisms in BTNL2 are associated with a risk for sporadic prostate cancer, rheumatoid arthritis, sarcoidosis, ulcerative colitis, and other inflammatory diseases.