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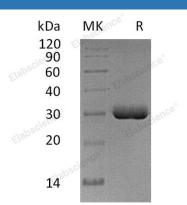
## Recombinant Human Butyrophilin 3A2/BTN3A2 Protein (His Tag)

## Catalog Number: PKSH032133

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

| Description    |                                                                                          |
|----------------|------------------------------------------------------------------------------------------|
| Species        | Human                                                                                    |
| Source         | HEK293 Cells-derived Human Butyrophilin 3A2;BTN3A2 protein Gln30-Trp248, with            |
|                | an C-terminal His                                                                        |
| Calculated MW  | 24.6 kDa                                                                                 |
| Observed MW    | 29 kDa                                                                                   |
| Accession      | P78410                                                                                   |
| 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 $< -20^{\circ}C$ 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 20mM PB,150mM NaCl,pH7.4.                 |
|                | 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



> 95 % as determined by reducing SDS-PAGE.

## Background

Butyrophilin subfamily 3 member A2, also known as BT3.2, BTF3, BTF4 and BTN3A2, is a single-pass type I membrane protein. It is a member of the butyrophilin (BTN) family and the immunoglobulin (IG) superfamily. Mature human BTN3A2 is a 305 amino acid (aa) glycoprotein. It contains a 219 aa extracellular region with one V-type Ig-like domain, and a 65 aa cytoplasmic tail. The cytoplasmic region undergoes phosphorylation on two serines. There are three potential splice forms. BTN3A2 is postulated to be expressed on immune-related cells, as it has a structural similarity to MHC and CD80/CD86 molecules. It plays a role in T-cell responses in the adaptive immune response and inhibits the release of IFNG from activated T-cells.

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