## Product Data:

**Product SKU:** RPES3817

**Species**: Rat

**Uniprot:** Q7TPB4

**Size:** 50μg

**Expression host:** HEK293 Cells

## Protein Information:

| | |
|---|---|
| **Molecular Mass:** | 50.6 kDa |
| **AP Molecular Mass:** | 61 kDa |
| **Tag:** | C-Fc |
| **Bio-activity:** | |
| **Purity:** | > 85 % as determined by SDS-PAGE |
| **Endotoxin:** | < 1.0 EU per μg of the protein as determined by the LAL method |
| **Storage:** | 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping:** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation:** | Lyophilized from sterile PBS, pH 7.4 |
| **Reconstitution:** | Please refer to the printed manual for detailed information. |
| **Application:** | |
| **Synonyms:** | CD276;B7h3 |

**Sequence:** Met1-Phe244

## Background:

B7-H3 is a member of the B7 family of immune regulatory ligands that is thought to attenuate peripheral immune responses through co-inhibition. It plays an important role in adaptive immune responses, and was shown to either promote or inhibit T-cell responses in various experimental systems. B7-H3 may play an important role in muscle-immune interactions, providing further evidence of the active role of muscle cells in local immunoregulatory processes. B7-H3 is a novel protein structurally related to the B7 family of ligands by the presence of a single set of immunoglobulin-V-like and immunoglobulin-C-like (VC) domains. Previous studies have correlated its overexpression with poor prognosis and decreased tumor-infiltrating lymphocytes in various carcinomas including uterine endometrioid carcinomas, and mounting evidence supports an immuno-inhibitory role in ovarian cancer prognosis. Recently, B7-H3 expression has been reported in several human cancers indicating an additional function of B7-H3 as a regulator of antitumor immunity.