



Recombinant Protein Technical Manual

Recombinant Human CD7/GP40 Protein (Fc Tag)

RPES4623

Product Data:

Product SKU: RPES4623

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P09564

Protein Information:

Molecular Mass: 43.4 kDa

AP Molecular Mass: 59 kDa

Tag: C-Fc

Bio-activity:

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

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 .

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: T-Cell Antigen CD7; GP40; T-Cell Leukemia Antigen; T-Cell Surface Antigen Leu-9; TP41; CD7

Immunogen Information:

Sequence: Ala26-Pro180

Background:

T-Cell Antigen CD7 is a single-pass type I membrane protein that belongs to the immunoglobulin superfamily. Human CD7 is synthesized as a 240 amino acid precursor that contains a 25 amino acid signal sequence and a 215 amino acid mature chain with a Ig-like (immunoglobulin-like) domain. CD7 is normally expressed on all T-lymphocytes, NK-cells, pre-B lymphocytes and pluripotent hematopoietic stem cells. CD7 plays an essential role in T-cell interactions, T-cell/B-cell interaction during early lymphoid development, T- and NK-cell activation and cytokine production. CD7 has been shown to interact with PIK3R1 and SECTM1. However, the function of the CD7 protein in the immune system is still largely unknown.