

# Recombinant Protein Technical Manual Recombinant Human CD38 Protein (mFc Tag)

**RPES4793** 

#### **Product Data:**

**Product SKU:** RPES4793 **Size:** 10μg

Species: Human Cells

Uniprot: P28907

### **Protein Information:**

Molecular Mass: 56.5 kDa

AP Molecular Mass: 70-90 kDa

Tag: C-mFc

**Bio-activity:** 

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

**Endotoxin:**  $< 1.0 \text{ EU per } \mu\text{g}$  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  $4-7^{\circ}$ 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 20mM Tris, 150mM NaCl, PH8.0.

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

**Application:** 

**Synonyms:** ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1; ADP-ribosyl cyclase 1; Cyclic

ADP-ribose hydrolase 1; CD38 antigen; CD38 molecule; CD38

## Immunogen Information:

Sequence: Val43-Ile300

## **Background:**

CD38, also called ADP-ribosyl cyclase, is a Type II integral membrane protein with 301 amino acids in length that belongs to the ADP-ribosyl cyclase family. It synthesizes the second messagers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. And also moonlights as a receptor in cells of the immune system. CD38 is expressed in B and T lymphocytes, osteoclasts, and in cardiac, pancreatic, liver and kidney cells. Through its production of cyclic ADP-ribose, CD38 modulates calcium-mediated signal transduction in many types of cells, including neutrophils and pancreatic beta cells.