

# Recombinant Human CD38 Protein (Fc Tag)

Catalog Number: PKSH033778

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

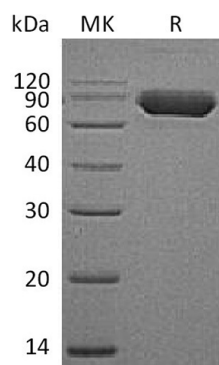
## Description

<b>Species</b>	Human
<b>Mol_Mass</b>	57.0 kDa
<b>Accession</b>	P28907
<b>Bio-activity</b>	Not validated for activity

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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 messengers 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.

## For Research Use Only