

# Recombinant Mouse CD38 Protein (His Tag)

Catalog Number:PKSM041365



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

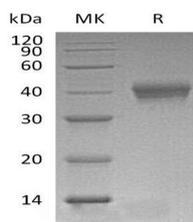
## Description

<b>Synonyms</b>	cADPr hydrolase 1;CD38 antigen (p45);CD38 antigen;CD38 molecule;CD38;Cyclic ADP-ribose hydrolase 1;Cyclic ADP-ribose Hydrolase;EC 3.2.2.5;NAD(+) nucleosidase;T10;;ADPRC 1-rs1;ADPRC1;Cd38;Cd38-rs1;I-19
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Leu45-Thr304
<b>Accession</b>	P56528
<b>Calculated Molecular Weight</b>	30.6 kDa
<b>Observed molecular weight</b>	38-47 kDa
<b>Tag</b>	C-His

## 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>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

CD38, also known as ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, is a Signal-anchor for type II membrane protein. CD38 is able to transform NAD<sup>+</sup> to ADP-D-ribose and nicotinamide. It also can transform NADP<sup>+</sup> to nicotinate-adenine dinucleotide phosphate and nicotinamide. CD38 is expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma. Synthesizes the second messengers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.

## For Research Use Only

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