

## Mouse CD38, His Tag, CHO

Catalog Number	LDG018PMM
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Mouse

#### Expression System

CHO

#### Affinity Tag

His Tag (C-term)

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Purity

>95% as determined by SDS-PAGE analysis.

#### Molecular weight

The protein has a calculated MW of 30.61 kDa. The protein migrates as 36-42 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

#### Mycoplasma

Not detected

#### Form

Lyophilized

### Background

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### Background

CD38, a transmembrane glycoprotein, is widely expressed on immune cells such as B cells, T cells, and natural killer cells, as well as non-immune cells like endothelial cells. It functions as a multifunctional enzyme with ADP-ribosyl cyclase activity, catalyzing the conversion of NAD<sup>+</sup> to cyclic ADP-ribose and nicotinic acid adenine dinucleotide phosphate. CD38 regulates calcium signaling, cell adhesion, and differentiation, playing essential roles in immune responses and inflammation. Moreover, CD38 is also a therapeutic target in multiple myeloma, where its expression correlates with disease progression. Understanding CD38's diverse functions is crucial for developing targeted therapies in immunology and oncology.

### Uniprot ID

P56528

### Synonyms

2'-phospho-ADP-ribosyl cyclase, 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase, 2'-phospho-cyclic-ADP-ribose transferase, ADP-ribosyl cyclase 1 (ADPRC 1), Cyclic ADP-ribose hydrolase 1 (cADPR hydrolase 1), I-19, NIM-R5 antigen

### Sequence Note

Leu45-Thr304

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 0.2 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

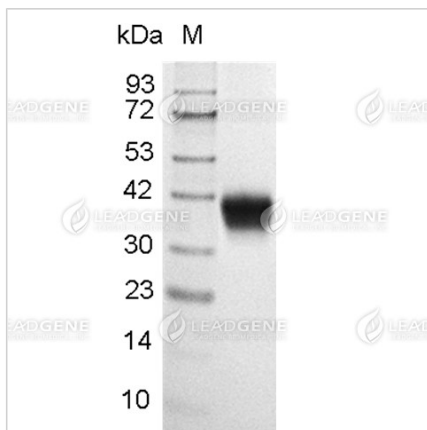
- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image



SDS-PAGE analysis of recombinant mouse CD38.

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