

Recombinant Mouse CD38 Protein (His Tag), Enzyme Activity (TBP0005, Store at -20°C ~ -80°C)

| Catalog | Unit |
|---------------|--------|
| TBP0005-50UG | 50 µg |
| TBP0005-500UG | 500 µg |

Product Description

Cluster of differentiation 38 (CD38), also known as ADP-ribosyl cyclase, is a glycoprotein found on the surface of many immune cells (white blood cells), including CD4+, CD8+, B and natural killer cells. It shares several characteristics with ADP-ribosyl cyclase 2 CD157. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD⁺ to ADP-ribose. It also functions in cell adhesion, signal transduction and calcium signaling. CD38 has been used as a prognostic marker in leukemia. It can also be used to identify plasma cells. This enzyme is validated for CD38 Enzymatic activity application.

Product Details

Source: Mouse

Expression system: HEK293 Cells.

Protein Construction: Met1-Thr304 with a C terminal 6 His tag.

UniProt No: P56528

Alternative Names: ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, CD38, ADPRC 1, ADPRC1.

Product Specification

N Terminal Sequence Analysis: Leu 45.

Predicted Molecular Weight: 31.3 kDa (271aa)

SDSPAGE: 38-42 kDa in SDS-PAGE under reducing conditions.

Concentration: 1mg/ml.

Formulation: Liquid in 50mM MES buffer (pH 6.5) containing 100mM NaCl, 10% glycerol.

Concentration: 1mg/mL.

Purity: > 95% by SDS-PAGE.

Tag: His-Tag.

Biological Activity: Measured by its ability to convert the substrate nicotinamide guanine dinucleotide (NGD⁺) to cyclic GDP ribose. The specific activity is > 50,000 pmoles/min/µg.

Storage Condition: Store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

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

Protein Sequence: Met1-Thr304.

Applications

Enzymatic Activity, and protein assay by SDS-PAGE

For research use only