

Recombinant Human CD38 Protein (His Tag), Enzyme Activity (TBP0004, Store at -20°C ~ -80°C)

Catalog	Unit
TBP0004-50UG	50 µg
TBP0004-500UG	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: Human

Expression system: HEK293 Cells.

Protein Construction: Val43 ~ Ile300 with a C terminal 6 His tag.

UniProt No: P28907

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

Product Specification

N Terminal Sequence Analysis: Val43.

Predicted Molecular Weight: 31.2 kDa (269aa)

SDSPAGE: 43-45 kDa in SDS-PAGE under reducing conditions.

Concentration: 1mg/ml (determined by Bradford assay).

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 > 2,500 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: Val43 ~ Ile300.

Applications

Enzymatic Activity, and protein assay by SDS-PAGE

For research use only