

## Human CD38 Protein (C-His-Avi)

<b>Catalog Number:</b>	800001, 800002
<b>Size:</b>	25 ug, 100 ug
<b>Target Name:</b>	CD38, T10, cADPr 1
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Application:</b>	ELISA, BLI
<b>Format:</b>	Liquid, Purified
<b>Expression Host:</b>	HEK293
<b>Species:</b>	Human
<b>Sources:</b>	Human CD38 protein (Val43-Ile300) with C-terminus His tag and Avi tag is expressed in HEK293 cells.
<b>Accession Number:</b>	P28907
<b>Molecular Weight:</b>	The 285 amino acid protein has a predicted molecular weight of 33 kDa. The protein migrates at approximately 35-45 kDa on SDS-PAGE with DTT-reduced conditions.
<b>Affinity Tag:</b>	C-His-Avi
<b>Purity:</b>	>95% based on SDS-PAGE under reducing condition
<b>Formulation:</b>	1xPBS buffer, pH7.4, 0.22 µm filtered
<b>Endotoxin level:</b>	Not tested
<b>Protein Concentration:</b>	25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.
<b>Storage and Handling:</b>	Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

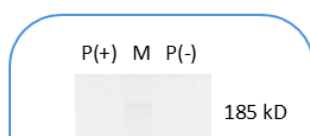
### BACKGROUND INFORMATION

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CD38 (ADP-ribosyl cyclase 1) is a Type II membrane protein involved in calcium signaling through the conversion of NAD(P)<sup>+</sup> into cADPR, NAADP<sup>+</sup>, and ADP-ribose. It is broadly expressed in immune cells and various tissues, and is linked to immune regulation, cancer, and metabolic disorders. CD38 also serves as a prognostic marker in leukemia.

### PRODUCT DATA

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Human CD38 protein (C-His-Avi) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95%.

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