

CD38 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P70074
Synonyms:	rCynADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, His; ADP-ribosyl cyclase 1; cyclic ADP-ribose hydrolase; CD38; T10
Species:	Cynomolgus
Source:	HEK293
Accession:	Q5VAN0 (L44-I301)
Gene ID:	102126394
Molecular Weight:	38-50 kDa

PROPERTIES

AA Sequence	<pre> L P R W R Q Q W S G S G T T S R F P E T V L A R C V K Y T E V H P E M R H V D C Q S V W D A F K G A F I S K Y P C N I T E E D Y Q P L V K L G T Q T V P C N K T L L W S R I K D L A H Q F T Q V Q R D M F T L E D M L L G Y L A D D L T W C G E F N T F E I N Y Q S C P D W R K D C S N N P V S V F W K T V S R R F A E T A C G V V H V M L N G S R S K I F D K N S T F G S V E V H N L Q P E K V Q A L E A W V I H G G R E D S R D L C Q D P T I K E L E S I I S K R N I R F F C K N I Y R P D K F L Q C V K N P E D S S C L S G I </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The CD38 protein assumes a multifaceted role in cellular signaling, playing a pivotal part in the synthesis of cyclic ADP-ribose (cADPR), identified as a probable second messenger crucial for glucose-induced insulin secretion. Additionally, CD38 contributes to calcium mobilization by synthesizing nicotinate-adenine dinucleotide phosphate, NAADP(+), derived from 2'-phospho-cADPR and nicotinic acid, as well as from NADP(+) and nicotinic acid. Beyond its synthetic functions, CD38 exhibits cADPR hydrolase activity, suggesting its involvement in the dynamic regulation of these signaling molecules. This intricate</p>
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repertoire of activities underscores the central role CD38 plays in mediating crucial cellular responses, particularly in the context of insulin secretion and calcium mobilization.

Caution: Product has not been fully validated for medical applications. For research use only.

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