CD38 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P70044
Synonyms:	rMuADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, Fc; ADP-ribosyl cyclase 1; cyclic ADP-ribose hydrolase; CD38; T10
Species:	Mouse
Source:	HEK293
Accession:	P56528 (L45-T304)
Gene ID:	12494
Molecular Weight:	70-90 kDa

PROPERTIES

AA Sequence	L R P R S L L V W T G E P T T K H F S D I F L G R C L I Y T Q I L R P E M R D Q N C Q E I L S T F K G A F V S K N P C N I T R E D Y A P L V K L V T Q T I P C N K T L F W S K S K H L A H Q Y T W I Q G K M F T L E D T L L G Y I A D D L R W C G D P S T S D M N Y V S C P H W S E N C P N N P I T V F W K V I S Q K F A E D A C G V V Q V M L N G S L R E P F Y K N S T F G S V E V F S L D P N K V H K L Q A W V M H D I E G A S S N A C S S S S L N E L K M I V Q K R N M I F A C V D N Y R P A R F L Q C V K N P E H P S C R L N T
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The CD38 protein plays a crucial role in synthesizing two important second messengers: cyclic ADP-ribose (cADPR) and nicotinate-adenine dinucleotide phosphate (NAADP). cADPR acts as a second messenger involved in glucose-induced insulin secretion, while NAADP serves as a calcium mobilizer. Additionally, CD38 exhibits cADPR hydrolase activity, further contributing to its functional versatility.

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

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