

CD38 Protein, Rat (HEK293, His)

Cat. No.:	HY-P70077
Synonyms:	rRtADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, His ; 17-1A; 323/A3; ACSTD1; CD326; EGP-2; EGP314; EGP40; EpCAM; MOC31; TACST-1; TACSTD1; TROP1;
Species:	Rat
Source:	HEK293
Accession:	Q64244 (W45-V303)
Gene ID:	25668
Molecular Weight:	35-50 kDa

PROPERTIES

AA Sequence	<pre> W P R S P L V W K G K P T T K H F A D I I L G R C L I Y T Q I L R P E M R D Q D C K K I L S T F K R G F I S K N P C N I T N 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 D S C P H W S E N C P N N P V A V F W N V I S Q K F A E D A C G V V Q V M L N G S L S E P F Y R N S T F G S V E V F N L D P N K V H K L Q A W V M H D I K G T S S N A C S S P S I N E L K S I V N K R N M I F A C Q D N Y R P V R F L Q C V K N P E H P S C R L N V </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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	The CD38 protein performs multiple essential functions. It is responsible for synthesizing two crucial second messengers, cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate. Cyclic ADP-ribose acts as a second messenger for glucose-induced insulin secretion, while nicotinate-adenine dinucleotide phosphate functions as a calcium mobilizer. CD38 also possesses cADPR hydrolase activity, adding to its functional repertoire. Additionally, CD38 regulates osteoclastic bone resorption, most likely through the production of cyclic ADP-ribose and the initiation of a calcium ion signal via activation of
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the ryanodine receptor.

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

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