

## CD38 Protein, Rat (HEK293, Fc)

<b>Cat. No.:</b>	HY-P72897
<b>Synonyms:</b>	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1; 2'-phospho-ADP-ribosyl cyclase; ADPRC 1; CD38
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	Q64244 (W45-V303)
<b>Gene ID:</b>	25668
<b>Molecular Weight:</b>	Approximately 67 kDa

### PROPERTIES

<b>AA Sequence</b>	<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>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>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</p>
-------------------	--

---

the ryanodine receptor.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA