

## CART Protein, Human (HEK293, Fc)

<b>Cat. No.:</b>	HY-P74350
<b>Synonyms:</b>	Cocaine- and amphetamine-regulated transcript protein; CART; CARTPT
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q16568 (Q28-L116)
<b>Gene ID:</b>	9607
<b>Molecular Weight:</b>	Approximately 37 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>Q E D A E L Q P R A    L D I Y S A V D D A    S H E K E L I E A L    Q E V L K K L K S K</p> <p>R V P I Y E K K Y G    Q V P M C D A G E Q    C A V R K G A R I G    K L C D C P R G T S</p> <p>C N S F L L K C L</p>
<b>Biological Activity</b>	Measured by its ability to enhance the outgrowth of SH-SY5Y cells. The ED <sub>50</sub> for this effect is 2.366 µg/mL, corresponding to a specific activity is 422.65 units/mg.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<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>	CART protein, a satiety factor intricately linked to the functions of leptin and neuropeptide Y, acts as an anorectic peptide by effectively suppressing both regular and starvation-triggered feeding. Furthermore, it robustly inhibits the feeding response initiated by neuropeptide Y and governed by leptin within the hypothalamus. Beyond its role in appetite regulation, CART protein also plays a pivotal role in fostering neuronal development and survival when studied in vitro.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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