

Recombinant Human CARTPT, His-tagged

Cat. No. CARTPT-53H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cocaine- and Amphetamine-Regulated Transcript Protein/CARTPT is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Gln28-Leu116) of Human CARTPT fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	28-116 a.a.
Description	Cocaine- and Amphetamine-Regulated Transcript Protein (CARTPT) is a secreted protein that belongs to the CART family. CARTPT is detected in neurons of the ventrolateral part of the arcuate nucleus, in the external zone of the median eminence, and also found in terminals in the periventricular part of the paraventricular nucleus. CARTPT is processed by prohormone/proprotein convertases to produce smaller, biologically active peptides. CARTPT is a satiety factor closely associated with the actions of leptin and neuropeptide Y. This anorectic peptide inhibits both normal and starvation-induced feeding and completely blocks the feeding response induced by neuropeptide Y and regulated by leptin in the hypothalamus. CARTPT promotes neuronal development and survival in vitro.
AA Sequence	QEDAELQPRALDIYSAVDDASHEKELIEALQEVLKCLKSKRVPIYEKKGQVPMCDAGEQCAVRK GARIGKLCDCPRGTSCNSFLLKCLVDHHHHHH

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
GENE INFORMATION	
Gene Name	CARTPT CART prepropeptide [Homo sapiens]
Official Symbol	CARTPT
Synonyms	CARTPT; CART prepropeptide; cocaine- and amphetamine-regulated transcript protein; CART; cocaine and amphetamine regulated transcript;
Gene ID	9607
mRNA Refseq	NM_004291
Protein Refseq	NP_004282
MIM	602606
UniProt ID	Q16568
Chromosome Location	5q13.2
Function	molecular_function; protein binding;

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