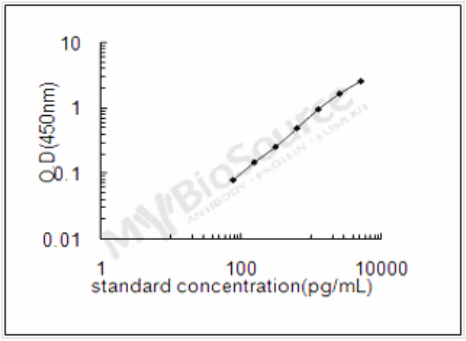
Cocaine- and Amphetamine-Regulated Transcript (CARTPT) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cocaine- and amphetamine-regulated transcript protein (CARTPT), ELISA Kit
Full Product Name	Human Cocaine- and amphetamine-regulated transcript protein ELISA Kit
Product Gene Name	CARTPT elisa kit
Product Synonym Names	Cocaine- and amphetamine-regulated transcript protein; CARTPT; CART
Species Reactivity	Human
Assay Type	Sandwich
Detection Range	78-5000 pg/mL
Sensitivity	33pg/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	12,829 Da
OMIM	602606
3D Structure	ModBase 3D Structure for Q16568
Intra-Assay CV	<=5.2%
Inter-Assay CV	<=8.3%
Recovery	89%
Related Product Information for CARTPT elisa kit	MBS288688 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cocaine- and amphetamine-regulated transcript protein (CARTPT) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CARTPT. The ELISA analytical biochemical technique of the MBS288688 kit is based on CARTPT antibody-CARTPT antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CARTPT antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CARTPT. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CARTPT elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Typical Testing Data/Standard Curve (for reference only) of CARTPT elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CARTPT. It may not necessarily be applicable to this product.

NCBI GI #	4757910
NCBI GeneID	9607
NCBI Accession #	NP_004282.1
UniProt Primary Accession #	Q16568
UniProt Secondary Accession #	Q6FG92
UniProt Related Accession #	Q16568
GenBank Nucleotide #	NM_004291.3
NCBI Official Full Name	cocaine- and amphetamine-regulated transcript protein preproprotein
NCBI Official Synonym Full Names	CART prepropeptide
NCBI Official Symbol	CARTPT
NCBI Official Synonym Symbols	CART
UniProt Protein Name	Cocaine- and amphetamine-regulated transcript protein
Protein Family	Cocaine- and amphetamine-regulated transcript protein
UniProt Gene Name	CARTPT
UniProt Synonym Gene Names	CART
UniProt Entry Name	CART_HUMAN
NCBI Protein Information	cocaine- and amphetamine-regulated transcript protein
NCBI Summary for CARTPT	This gene encodes a preproprotein that is proteolytically processed to generate multiple biologically active peptides. These peptides play a role in appetite, energy balance, maintenance of body weight, reward and addiction, and the stress response. Expression of a similar gene transcript in rodents is upregulated following administration of cocaine and amphetamine. Mutations in this gene are associated with susceptibility to obesity in humans. [provided by RefSeq, Feb 2016]
UniProt Comments for CARTPT	CARTPT: 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. It promotes neuronal development and survival in vitro. Belongs to the CART family. Protein type: Secreted; Motility/polarity/chemotaxis; Secreted, signal peptide; Hormone Chromosomal Location of Human Ortholog: 5q13.2 Cellular Component: extracellular space; secretory granule Molecular Function: protein binding Biological Process: activation of MAPKK activity; adult feeding behavior; cell glucose homeostasis; cell-cell signaling; cellular response to starvation; circadian regulation of gene expression; G-protein coupled receptor protein signaling pathway; negative regulation of appetite; negative regulation of bone resorption; negative regulation of osteoclast differentiation; neuropeptide signaling pathway; positive regulation of blood pressure; positive regulation of epinephrine secretion; positive regulation of transmission of nerve impulse; regulation of insulin secretion; signal transduction; synaptic transmission Disease: Obesity
Research Articles on CARTPT	**1.** Colocalization experiments provided evidence for the presence of cocaine- and amphetamine-regulated transcript (CART) in KP-immunoreactive (IR) and perikarya and in KP-IR and NKB-IR axon varicosities.

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