

Recombinant Mouse Cartpt Protein, His&GST-tagged

Cat. No. Cartpt-619M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cartpt Protein (Gln28-Leu129) with His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gln28-Leu129
Description	This gene encodes preproprotein isoforms that are processed into multiple biologically active peptides. Expression of this gene is regulated by cocaine and other drugs, and is associated with feeding/appetite and stress response. Mice lacking the encoded protein are predisposed to obesity. Deficiency of the encoded protein in mice results in pancreatic islet dysfunction, impaired insulin secretion and glucose intolerance. Alternative splicing results in multiple transcript variants encoding different isoforms, which are subsequently processed into mature peptides.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 41.4 kDa; Accurate Molecular Mass: 41 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Cartpt CART prepropeptide [Mus musculus (house mouse)]
Official Symbol	Cartpt
Synonyms	Cartpt; CART prepropeptide; Cart; cocaine- and amphetamine-regulated transcript protein
Gene ID	27220
mRNA Refseq	NM_013732
Protein Refseq	NP_038760
UniProt ID	P56388

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