

ARG82414 Rat CPE / Carboxypeptidase E ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82414-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82414-002	Standard	2 X 10 ng/vial	4°C
ARG82414-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82414-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82414-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82414-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82414-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82414-008	25X Wash buffer	20 ml	4°C
ARG82414-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82414-010	STOP solution	10 ml (Ready to use)	4°C
ARG82414-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82414 Rat CPE / Carboxypeptidase E ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat CPE / Carboxypeptidase E in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	CPE / Carboxypeptidase E
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.9% Inter-Assay CV: 6.3%

Alternate Names CPH; Carboxypeptidase H; Enkephalin convertase; CPE; Carboxypeptidase E; Prohormone-processing carboxypeptidase; EC 3.4.17.10

Application Instructions

Assay Time ~ 5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CPE

Gene Full Name carboxypeptidase E

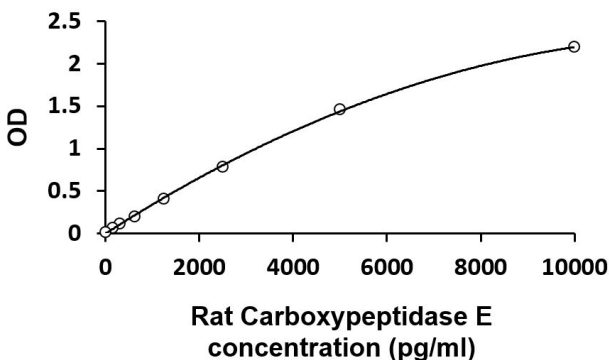
Background This gene encodes a carboxypeptidase that cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. It is a peripheral membrane protein. The protein specifically binds regulated secretory pathway proteins, including prohormones, but not constitutively secreted proteins. Mutations in this gene are implicated in type II diabetes. [provided by RefSeq, Jul 2008]

Function Removes residual C-terminal Arg or Lys remaining after initial endoprotease cleavage during prohormone processing. Processes proinsulin. [UniProt]

Highlight Related products:
[Carboxypeptidase antibodies](#); [Carboxypeptidase ELISA Kits](#); [Carboxypeptidase recombinant proteins](#);
New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

Cellular Localization Isoform 1: Cytoplasmic vesicle, secretory vesicle membrane; Peripheral membrane protein. Secreted. Note=Associated with the secretory granule membrane through direct binding to lipid rafts in intragranular conditions. Isoform 2: Nucleus. [UniProt]

Images



ARG82414 Rat CPE / Carboxypeptidase E ELISA Kit standard curve image

ARG82414 Rat CPE / Carboxypeptidase E ELISA Kit results of a typical standard run with optical density reading at 450 nm.