

Human Carboxypeptidase N catalytic chain (CPN1) ELISA Kit



Catalog No: #EK11290

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Package Size: #EK11290-1 48T #EK11290-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Carboxypeptidase N catalytic chain (CPN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CPN; FLJ40792; SCPN; anaphylatoxin inactivator arginine carboxypeptidase carboxypeptidase N catalytic subunit carboxypeptidase N polypeptide 1 50 kD carboxypeptidase N small subunit kininase I lysin
Accession No.	P15169
Uniprot	P15169
GeneID	1369;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:6.2 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CPN1 in samples. An antibody specific for CPN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCPN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CPN1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CPN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Carboxypeptidase N is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The enzyme is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and anaphylatoxin inactivator.

This enzyme is a tetramer composed of two identical regulatory subunits and two identical catalytic subunits; this gene encodes the catalytic subunit. Mutations in this gene can be associated with angioedema or chronic urticaria resulting from carboxypeptidase N deficiency.The predicted protein is 458 amino acids long. Carboxypeptidase N is a 280-kD tetrameric complex consisting of 2 identical 83-kD regulatory subunits and 2 identical 50-kD catalytic subunits.

Note: This product is for in vitro research use only