

CPA365Hu31 10µg
KLH Conjugated Copeptin (CPP)
Organism Species: Homo sapiens (Human)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[PROPERTIES]

Antigen: CPP-KLH

Residues: Synthetic Peptide

Predicted isoelectric point: 4.2

Predicted Molecular Mass: 1598.7Da

Purity: >95%

Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).

Formulation: Supplied as lyophilized form in PBS.

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

[RELEVANCE]

Copeptin is a 39-amino acid-long peptide deriving from a pre-pro-hormone consisting of vasopressin, neurophysin II and copeptin. It is synthesized mainly in the paraventricular neurons of the hypothalamus and in the supraoptical nucleus. Once secreted into the blood stream, there is no known biological role for copeptin.

However, when pre-pro-vasopressin is processed during the axonal transport, copeptin may contribute to the 3D folding of vasopressin. High concentrations of vasopressin during a cardiogenic shock have been widely described. It has been shown that the kinetics of copeptin are similar to vasopressin in that context.

[**USAGE**]

Reconstitute in ddH₂O.

[**STORAGE AND STABILITY**]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[**SEQUENCES**]

The synthetic peptide's sequence is listed below.

DRSNATQLDGPGALL