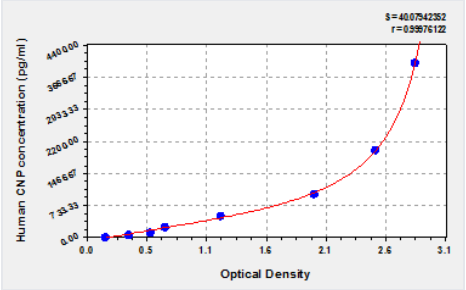
Natriuretic Peptide Precursor C (NPPC) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	natriuretic peptide precursor C (NPPC), ELISA Kit
Full Product Name	Human C -type natriuretic peptide, CNP ELISA Kit
Product Gene Name	NPPC elisa kit
Product Synonym Names	Human C -type natriuretic peptide; CNP ELISA Kit; CNP; OTTHUMP00000203815; natriuretic peptide precursor C
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates
Detection Range	62.5 pg/ml-4000 pg/ml
Sensitivity	< 15.6 pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human CNP. No significant cross-reactivity or interference between human CNP and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	13,246 Da
OMIM	600296
3D Structure	ModBase 3D Structure for P23582
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NPPC elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CNP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CNP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CNP is added to the wells. After washing, avidin 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 CNP bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of NPPC 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.
Searchable Terms for NPPC purchase	MBS704887 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the natriuretic peptide precursor C (NPPC) 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 NPPC. The ELISA analytical biochemical technique of the MBS704887 kit is based on NPPC antibody-NPPC antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NPPC antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NPPC. 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(%).



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

ADDITIONAL DETAILS

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

NCBI GI #	13249346
NCBI GeneID	4880
NCBI Accession #	NP_077720.1
UniProt Primary Accession #	P23582
UniProt Secondary Accession #	Q4ZG41
UniProt Related Accession #	P23582
GenBank Nucleotide #	NM_024409.2
NCBI Official Full Name	C-type natriuretic peptide
NCBI Official Synonym Full Names	natriuretic peptide C
NCBI Official Symbol	NPPC
NCBI Official Synonym Symbols	CNP; CNP2
UniProt Protein Name	C-type natriuretic peptide
Protein Family	C-type natriuretic peptide
UniProt Gene Name	NPPC
UniProt Synonym Gene Names	CNP2
UniProt Entry Name	ANFC_HUMAN
NCBI Protein Information	C-type natriuretic peptide; natriuretic peptide precursor C
NCBI Summary for NPPC	The protein encoded by this gene is proteolytically processed to form a secreted hormone of the natriuretic peptide family. The encoded hormone regulates the growth and differentiation of cartilaginous growth plate chondrocytes and may also be vasoactive and natriuretic. [provided by RefSeq, Sep 2011]
UniProt Comments for NPPC	**Function:** Hormone which plays a role in endochondral ossification through regulation of cartilaginous growth plate chondrocytes proliferation and differentiation. May also be vasoactive and natriuretic. Specifically binds and stimulates the cGMP production of the NPR2 receptor. Binds the clearance receptor NPR3 1 PublicationManual assertion based on experiment in:Ref.6
Research Articles on NPPC	**1.** Data indicate an important, previously neglected, role of NEP for regulation of luminal factors in the epididymis and suggest a novel role for CNP/guanylyl cyclase B in the epididymal epithelium.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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