Product datasheet

Rat BNP 45 ELISA Kit ab108816

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Overview

Product name          Rat BNP 45 ELISA Kit
Detection method      Colorimetric

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intra-assay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>4.9%</td>
</tr>
<tr>
<td>Inter-assay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>7.1%</td>
</tr>
</tbody>
</table>

Sample type          Cell culture supernatant, Serum, Plasma, Tissue Extracts
Assay type           Sandwich (quantitative)
Sensitivity          $= 0.03 \text{ ng/ml}$
Range                $0.031 \text{ ng/ml} - 1 \text{ ng/ml}$
Assay duration       Multiple steps standard assay
Species reactivity   Reacts with: Rat

Product overview

Abcam’s BNP 45 rat in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of BNP 45 in plasma, serum, tissue extract, and cell culture supernatants.

A BNP 45 specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently a BNP 45 specific biotinylated detection antibody is added and then followed by washing with wash buffer. Streptavidin-Peroxidase Conjugate is added and unbound conjugates are washed away with wash buffer. TMB is then used to visualize Streptavidin-Peroxidase enzymatic reaction. TMB is catalyzed by Streptavidin-Peroxidase to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the amount of BNP 45 captured in plate.
The entire kit may be stored at -20°C for long term storage before reconstitution - Avoid repeated freeze-thaw cycles.

Notes
There is significant cross-reactivity between BNP32 and BNP45.

Platform
Microplate

Properties

Storage instructions
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>100X Streptavidin-Peroxidase Conjugate</td>
<td>1 x 80µl</td>
</tr>
<tr>
<td>10X Diluent N Concentrate</td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>2 x 30ml</td>
</tr>
<tr>
<td>70X Biotinylated Rat BNP 45 Antibody</td>
<td>1 x 90µl</td>
</tr>
<tr>
<td>BNP 45 Microplate (12 x 8 well strips)</td>
<td>1 unit</td>
</tr>
<tr>
<td>BNP 45 Standard (Lyophilized)</td>
<td>1 vial</td>
</tr>
<tr>
<td>Chromogen Substrate</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>Sealing Tapes</td>
<td>3 units</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

Function
Cardiac hormone which may function as a paracrine antifibrotic factor in the heart. Also plays a key role in cardiovascular homeostasis through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Specifically binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3.

Tissue specificity
Brain and also in atria, but at much lower levels than ANP.

Sequence similarities
Belongs to the natriuretic peptide family.

Cellular localization
Secreted.
Sandwich ELISA - BNP45 Rat (ab108816)

Standard curve: mean of duplicates (+/-SD) with background readings subtracted

Rat BNP45 measured in biological fluids showing quantity (pg) per mL of tested sample

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