Bradykinin ELISA kit

Sensitive and reliable ELISA for measuring bradykinin in plasma, serum and urine samples.

The Bradykinin EIA kit is a colorimetric, competitive immunoassay kit with results in 3 hours.

Bradykinin was discovered in 1949 as a substance generated from a globulin precursor in plasma by the action of proteases. Its name indicates that is causes a slow movement of the gut. As early as 1909 it was noted that substances found in urine, which were later identified as kinins, have hypotensive actions. Kinins are effectors of vasodilation, vascular permeability, NO release and arachidonic acid mobilization. They are important regulators of blood pressure, kidney function and heart function, and they are also involved in inflammation. Bradykinin is generated from the blood globulin kininogen HK, by the action of the kallikrein system in blood (related to the blood clotting cascade) but can also be generated in other tissues and organs. Besides kallikrein, other proteases such as plasmin may also release bradykinin. Several peptidases can degrade kinins, includ-ing Angiotensin Converting Enzyme (ACE), a metalloproteinase which converts Angiotensin I to Angiotensin II and destroys bradykinin. Plasma bradykinin is rapidly degraded to a smaller stable peptide (BK1-5) form.

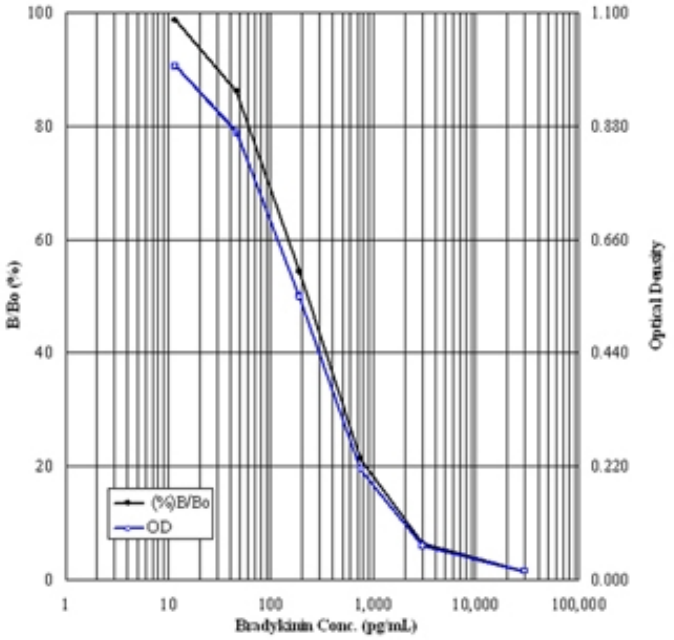
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ADI-900-206	96 wells

Manuals, SDS & CofA View Online »

- Sensitive, reliably measure as little as 24.8 pg/ml of Bradykinin
- Rapid results in just 3 hours from up to 41 samples in duplicate
- Broad dynamic range to easily quantify high and low levels of Bradykinin
- Easy-to-use liquid color-coded reagents reduce errors


100
80
60
40
20
0
1.100
0.880
0.660
0.440
0.220
0.000
B/Bo (%)
Optical Density
(%)B/Bo
OD
1
10
100
1,000
10,000
100,000
Bradykinin Conc. (pg/mL)

Handling & Storage

Use/Stability	Store all components at +4ºC, except Standard at -20ºC.
Short Term Storage	-20°C
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of species independent Bradykinin in plasma, serum and urine samples.
Assay Time	3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter Plate, Conjugate, Antibody, Assay Buffer 16, Wash Buffer Concentrate, Standard, TMB Substrate, Stop Solution 2, Streptavidin-HRP
Crossreactivity	Bradykinin (100%) Lys-Bradykinin (Kallidin) (100%) and Les-des-Arg9-Bradykinin (<1%), BK1-5 stable degradion product (<0.1%)
Quantity	1 x 96-well plate
Sensitivity	24.8 pg/ml (range 11.7-30,000 pg/ml)
Species Reactivity	Species independent
UniProt ID	P01042 (human)
Wavelength	450 nm

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