

Mouse Brain Natriuretic Peptide (BNP) ELISA Kit-Sandwich

Cat. No.: EK5F863

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Brain Natriuretic Peptide (BNP) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse BNP in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Brain Natriuretic Peptide (BNP).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	15.7-1000 pg/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Brain Natriuretic Peptide (BNP) is a hormone secreted by the heart, primarily produced in the ventricles of mice, and plays a crucial role in regulating blood pressure, fluid balance, and overall cardiovascular function. BNP achieves its physiological effects by binding to the Natriuretic Peptide Receptor A (NPRA) and activating guanylyl cyclase-A (GC-A), leading to the production of cyclic guanosine monophosphate (cGMP). This results in effects such as diuresis, vasodilation, and reduced blood pressure, in addition to providing protective benefits against cardiac hypertrophy and fibrosis. The functions and mechanisms of BNP have been extensively explored using mouse models. For instance, BNP-deficient mice (such as *Npr1*^{-/-} mice) exhibit significant cardiac hypertrophy and myocardial fibrosis, which resemble the cardiac pathological characteristics seen in human heart failure patients.

Target/Biomarker	Mouse BNP
Target Synonym	GC-B; B-Type Natriuretic Peptide; Ventricular Natriuretic Peptide; Gamma-brain natriuretic peptide; Brain natriuretic peptide 32

Gene ID [18158](#)

UniProt ID [P40753](#)

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.