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Mouse Renin (REN) ELISA Kit-Sandwich

Cat. No.: EK5F336

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Renin (REN) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse REN 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 Renin (REN).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 ng/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

Renin in mice serves several critical roles, primarily in regulating blood pressure, maintaining kidney function, and potentially influencing brain barrier integrity and cognitive abilities. It is a pivotal enzyme in the renin-angiotensin system (RAS), where it controls blood pressure by cleaving angiotensinogen to form angiotensin I (AI). Research indicates that mice lacking renin experience notable hypotension, increased urine output, greater water consumption, and altered glomerular structure, underscoring renin's essential role in sustaining blood pressure and kidney health. Besides its role in blood pressure regulation, renin may impact other physiological processes. For instance, studies suggest that mice without renin show enhanced cognitive performance in behavioral assessments.

Target/Biomarker	Mouse REN
Target Synonym	angiotensinogenase
UniProt ID	Q91X66

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.