

Mouse Aromatase (ARO) ELISA Kit-Sandwich

Cat. No.: EK6F884

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Aromatase (ARO) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse ARO 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 Aromatase (ARO).
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

Aromatase is a crucial enzyme responsible for converting androgens, like testosterone, into estrogens, and its gene (cyp19) is prominently expressed in the ovaries and brain tissues of mice. Research indicates that the absence of aromatase can cause significant reproductive system abnormalities in mice. For instance, aromatase knockout mice (ArKO) exhibit genital hypoplasia and uterine atrophy shortly after birth, with blocked ovarian follicle development and no corpus luteum formation. Additionally, aromatase knockout mice (Aro^{ΔaP2}) display reduced bone density, particularly in the trabecular region. Estrogen, synthesized by aromatase in adipose tissue, helps maintain bone density by regulating phosphate reabsorption in the renal tubules. Aromatase's role in neuroprotection has also been extensively studied, with knockout mice showing more severe neurodegenerative damage when calcium ion concentration and glutamate release in the hippocampus are increased.

Target/Biomarker	Mouse ARO
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Target Synonym	CYP19A1; CYPXIX; ARO; ARO1; CPV1; CYAR; CYP19; P450AROM; P450-AROM; Estrogen synthase; Cytochrome P450;Family 19;Subfamily A;Polypeptide 1
Gene ID	13075
UniProt ID	P28649

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.