

Mouse NitricOxide Synthase 2, Inducible (NOS2/iNOS) ELISA Kit-Sandwich

Cat. No.: EK5F295

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse NitricOxide Synthase 2, Inducible (NOS2/iNOS) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse NOS2/iNOS 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 NitricOxide Synthase 2, Inducible (NOS2/iNOS).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.32-20 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

Nitric Oxide Synthase 2, Inducible (NOS2), produces nitric oxide (NO), a messenger molecule with diverse bodily functions. In macrophages, NO is involved in tumoricidal and bactericidal activities and exhibits nitrosylase activity, mediating cysteine S-nitrosylation of cytoplasmic target proteins such as PTGS2/COX2. In mice, NOS2 primarily regulates immune response, inflammation, and oxidative stress. In a Mycobacterium tuberculosis infection model, NOS2 expression is not crucial for early infection control but may influence the immune response in certain scenarios. Moreover, NOS2 plays a significant role in the experimental autoimmune encephalitis (EAE) model; mice lacking NOS2 have heightened susceptibility to EAE, suggesting that NOS2 contributes to the disease process by regulating neuroinflammation.

Target/Biomarker	Mouse NOS2/iNOS
Target Synonym	NOS2A; INOS; HEP-NOS; I-NOS; Hepatocytes Oxide Synthase; Peptidyl-cysteine S-nitrosylase NOS2; NOS2; Nitric Oxide Synthase 2; Inducible

Gene ID [18126](#)

UniProt ID [P29477](#)

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.