

Canine 3-Nitrotyrosine (3-NT) ELISA Kit-Competitive

Cat. No.: EK2F162

Product Type: Animal Immunoassay Kits

Size: 96T

Product Overview

BioVenic Canine 3-Nitrotyrosine (3-NT) ELISA Kit-Competitive is designed for the quantitative determination of Canine 3-Nitrotyrosine (3-NT) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Competitive ELISA method. For research use only.

Specifications

Assay Type	ELISA-Competitive
Specificity	The assay kit is specific for Canine 3-NT.
Target Species	Canine
Species Reactivity	Canine
Detection Range	4.69-300 ng/mL
Sensitivity	1.35 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 120 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

3-Nitrotyrosine is a product of tyrosine nitration mediated by reactive nitrogen species such as peroxynitrite anion and nitrogen dioxide. It is identified as an indicator or marker of cell damage, inflammation, and nitric oxide (NO) production. It is formed in the presence of the active metabolite NO. The immunolabeling patterns of nNOS, eNOS, iNOS and 3-NT in canine cognitive dysfunction (CCD)-affected and non-affected canine brains suggested that nitrosative stress and inflammation may play a role in the pathogenesis of CCD.

Target/Biomarker	Canine 3-NT
Target Synonym	3-Nitro-L-Tyrosine; 3-Nitrotyrosine; Nitrotyrosine

Shipping and Storage

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

Reference

Prpar Mihevc, S. *et al.* Nitrosative Stress in the Frontal Cortex From Dogs With Canine Cognitive Dysfunction. *Front Vet Sci.* 2020, 7: 573155.

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.