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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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StressXpress®
Nitrotyrosine ELISA Kit

Colorimetric detection of Nitrotyrosine
Catalog No. SKT-126



Discovery through partnership | Excellence through quality

Overview

Product Name

Nitrotyrosine ELISA Kit

Description

Colorimetric detection of Nitrotyrosine

Species Reactivity

Species Independent

Platform

Microplate

Sample Types

Cell lysates, Plasma, Serum, Urine

Detection Method

Colorimetric Assay

Assay Type

Competitive ELISA (Enzyme-linked Immunosorbent Assay)

Utility

ELISA kit used to quantitate Nitrotyrosine in samples.

Sensitivity

50 nM

Assay Range

62.5 - 8000 nM

Precision

Intra-Assay Precision: Three samples of known concentration were assayed thirty times on one plate. The intra-assay coefficient of variation of the Nitrotyrosine ELISA has been determined to be <10%.

Inter-Assay Precision: Three samples of known concentration were assayed thirty times in three individual assays. The inter-assay coefficient of variation of the Nitrotyrosine ELISA has been determined to be <15%.

Incubation Time

1 hour

Number Of Samples

38 samples in duplicate

Other Resources

Kit Booklet, MSDS, Calculations Worksheet

Properties

Storage Temperature

4°C

Shipping Temperature

Blue Ice

Product Type

ELISA Kits

Assay Overview

1. Prepare standard and samples in the Sample and Standard Diluent.
2. Add 50 µL of prepared standards and samples in triplicate to appropriate wells.
3. Add 50 µL of the diluted antibody preparation to the appropriate wells.
4. Cover plate with Plate Cover and incubate at room temperature (20-25°C) for 1 hour.
5. Wash plate 4 times with 1X Wash Buffer.
6. Add 100 µL of TMB Substrate to each well.
7. Cover plate and develop the plate in the dark at room temperature for 30 minutes.
8. Add 100 µL of Stop Solution to each well.
9. Measure absorbance on a plate reader at 450 nm.
10. Plot the standard curve and calculate sample concentrations.

Kit Components

Component No.

Item

Quantity / Size

SKC-126A

Nitrosylated BSA Coated Plate

1 Plate

SKC-126C

Nitrotyrosine Standard

1 vial/110µl

SKC-126F

Nitrotyrosine HRP Conjugated Monoclonal Antibody

1 vial/75µl

SKC-0001

Sample and Standard Diluent (Red)

1 vial/50mL

SKC-0002

Nitrotyrosine Antibody Diluent (Blue)

1 vial/13mL

SKC-0003

Wash Buffer Concentrate (10X)

1 vial/ 50mL

SKC-0004

TMB Substrate

1 vial/13mL

SKC-0005

Stop Solution

1 vial/13mL

SKC-0009

Plate Cover

2

Cite This Product

Nitrotyrosine ELISA Kit (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SKT-126)

Biological Description

Alternative Names

Nitro tyrosine ELISA Kit, 3-Nitrotyrosine ELISA Kit, 3-Nitro-L-tyrosine ELISA Kit, 3 Nitrotyrosine ELISA Kit, 3-NT ELISA Kit, 3NT ELISA Kit

Research Areas

Cancer, Alzheimer's Disease, Cell Signaling, Neurodegeneration, Neuroscience, Nitration, Oxidative Stress, Parkinson's Disease, Post-translational Modifications

Scientific Background

Nitrotyrosine has been identified as a marker of inflammation and NO production. Nitrotyrosine is formed in presence of the active metabolite NO. Various pathways including the formation of peroxynitrite lead to nitrotyrosine production. Since nitrotyrosine is a stable end product of peroxynitrite oxidation, assessment of its plasma concentration may be useful as a marker of NO-dependent damage in vivo. Since NOX is only an indicator for enhanced NO production, protein associated nitrotyrosine might be a more suitable marker for damage induced by reactive nitrogen intermediates derived from NO. Furthermore, most proteins have a longer half life in the circulation than NOX levels. The presence of nitrotyrosine has been detected in various inflammatory processes including atherosclerotic plaques, celiac disease, rheumatoid arthritis, chronic renal failure and septic shock. In normal plasma low, undetectable, levels of nitrotyrosine are present.

Nitrosylation of the amino acid tyrosine occurs both for free tyrosine and for protein bound tyrosine.

Product Images

Typical Standard Curve for the Nitrotyrosine ELISA Kit (Enzyme-Linked Immunosorbent Assay) StressXpress® – SKT-126. Assay Type: Competitive ELISA. Detection Method: Colorimetric Assay. Assay Range: 62.5 – 8000 nM.

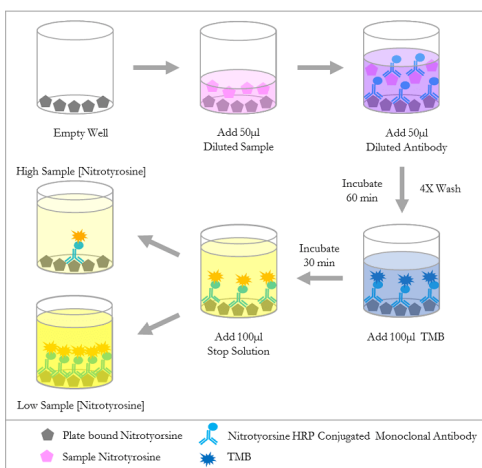
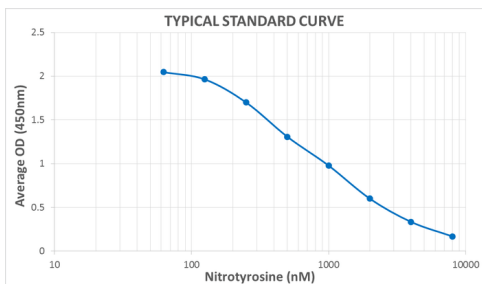


Diagram of the Competitive ELISA

Diagram of the Preparation of Nitrotyrosine Standards

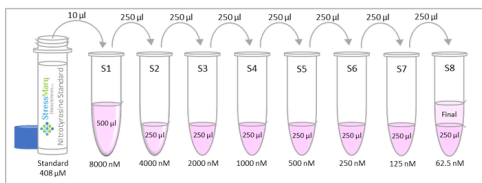


Diagram of the Triplicate Sample Plate Format

	1	2	3	4	5	6	7	8	9	10	11	12
A	S1	S1	S1	S9	S9	S9	7	7	7	15	15	15
B	S2	S2	S2	Blk	Blk	Blk	8	8	8	16	16	16
C	S3	S3	S3	1	1	1	9	9	9	17	17	17
D	S4	S4	S4	2	2	2	10	10	10	18	18	18
E	S5	S5	S5	3	3	3	11	11	11	19	19	19
F	S6	S6	S6	4	4	4	12	12	12	20	20	20
G	S7	S7	S7	5	5	5	13	13	13	21	21	21
H	S8	S8	S8	6	6	6	14	14	14	22	22	22

S1 – S8: 8000- 62.5 nM Standards Blk: Blank
S9: Zero Standard 1 – 22: Samples

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.