

Datasheet for KOA0888**Nitrotyrosine ELISA Kit****Overview**

Description:	Nitrotyrosine AccuSignal ELISA Kit - KOA0888
Item No.:	KOA0888
Size:	1 Kit
Applications:	ELISA
Reactivity:	Broad
Range:	62.5 ng/ml - 8000 nM

Product Details

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.
Synonyms:	Nitro tyrosine ELISA Kit, Nitrosylation, NOX, Nitrotyrosine ELISA KIT, Nitrotyrosine Enzyme-Linked Immunosorbent Assay, 3-Nitrotyrosine ELISA Kit, 3-Nitro-L-tyrosine ELISA Kit, 3 Nitrotyrosine ELISA Kit, 3-NT ELISA Kit, 3NT ELISA Kit
Conjugate:	Peroxidase (HRP)
Clonality:	Monoclonal
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 ng/ml - 8000 nM
Sensitivity:	50 nm

Target Details

Reactivity:	Broad
Purity/Specificity:	This kit contains: 96 wells coated plate, Target Protein Standard, HRP Conjugated Monoclonal Antibody, Diluent, Wash buffer, TMB Substrate and stop reagent, see protocol for additional information.
Relevant Links:	KOA0888 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Colorimetric Competitive ELISA (Enzyme-linked Immunosorbent Assay) assay for quantification of Free Nitrotyrosine in Cell lysates, Plasma, Serum, and Urine. Sensitivity: 50nM. Range: 62.5-8000nM.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	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%.

Formulation

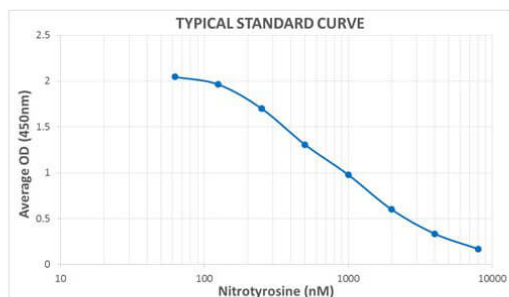
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	See kit insert for component storage. Store kit at 4°C and -20°C.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

ELISA

ELISA results of Nitrotyrosine displaying a typical Standard Curve for this kit using competitive/colorimetric ELISA Assay. Assay range 62.5 - 8000nM.



Disclaimer

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