



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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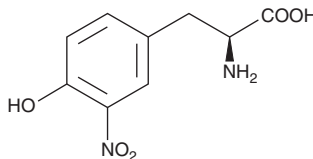
# PRODUCT INFORMATION



## Nitrotyrosine

Item No. 89540

CAS Registry No.: 621-44-3  
Formal Name: 3-nitro-L-tyrosine  
Synonym: NT  
MF:  $C_9H_{10}N_2O_5$   
FW: 226.2  
Purity:  $\geq 98\%$   
UV/Vis.:  $\lambda_{max}$ : 217, 274, 355 nm  
Supplied as: A crystalline solid  
Storage: Room temperature  
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



### Laboratory Procedures

Nitrotyrosine is supplied as a crystalline solid. Nitrotyrosine is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of nitrotyrosine be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of nitrotyrosine in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Nitrotyrosine is formed by peroxynitrite-mediated nitration of protein tyrosine residues. Its presence on proteins can be used as a marker for peroxynitrite formation *in vivo*.<sup>1-4</sup> Both free and protein-bound nitrotyrosine are commonly found in mammalian tissues and are increased in pathological conditions.<sup>2,5,6</sup> The basal levels of free nitrotyrosine in human plasma is approximately 3 nM as determined by gas chromatography/mass spectrometry.<sup>7,8</sup>

### References

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#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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