



# Human 3-nitrotyrosine (3-NT) ELISA Kit

|                             |  |
|-----------------------------|--|
| <b>Product Code</b>         | CSB-E14324h  |
| <b>Abbreviation</b>         | 3-NT   |
| <b>Target Name</b>          | 3-nitrotyrosine (3-NT)   |
| <b>Product Type</b>         | ELISA Kit  |
| <b>Immunogen Species</b>    | Homo sapiens (Human)   |
| <b>Sample Types</b>         | serum, plasma, tissue homogenates  |
| <b>Detection Range</b>      | 0.156 ng/mL-10 ng/mL   |
| <b>Sensitivity</b>          | 0.039 ng/mL  |
| <b>Assay Time</b>           | 1-5h   |
| <b>Sample Volume</b>        | 50-100ul   |
| <b>Detection Wavelength</b> | 450 nm   |
| <b>Lead Time</b>            | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx. |
| <b>Research Area</b>        | Signal Transduction  |
| <b>Tag Info</b>             | quantitative   |
| <b>Protein Description</b>  | Sandwich   |

**Description**

This Human 3-NT ELISA Kit was designed for the quantitative measurement of Human 3-NT protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL .

**Product Precision**

Intra-assay Precision (Precision within an assay): CV%<8%  
 Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%  
 Three samples of known concentration were tested in twenty assays to assess.

**Linearity**

To assess the linearity of the assay, samples were spiked with high concentrations of human 3-NT in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

|     |           |            |
|-----|-----------|------------|
| ?   | Sample    | Serum(n=4) |
| 1:1 | Average % | 97         |
|     | Range %   | 92-102     |
| 1:2 | Average % | 90         |
|     | Range %   | 82-98      |
| 1:4 | Average % | 104        |
|     | Range %   | 99-111     |



|     |           |       |
|-----|-----------|-------|
| 1:8 | Average % | 86    |
|     | Range %   | 82-96 |

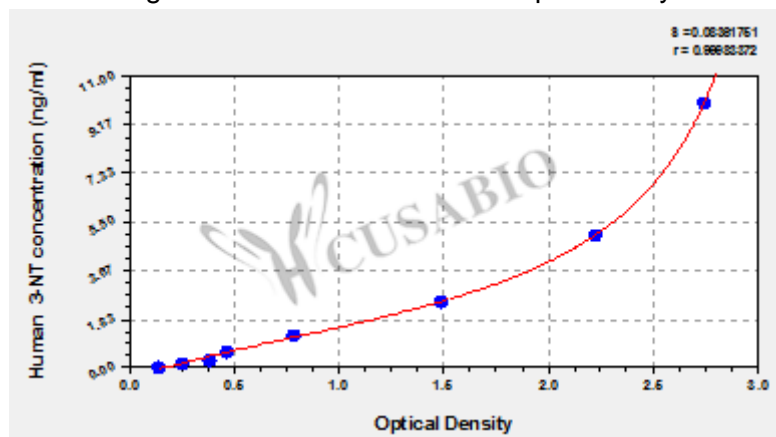
## Recovery

The recovery of human 3-NT spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

| Sample Type       | Average % Recovery | Range |
|-------------------|--------------------|-------|
| Serum (n=5)       | 90                 | 85-97 |
| EDTA plasma (n=4) | 91                 | 85-96 |

## Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



| ng/ml | OD1   | OD2   | Average | Corrected |
|-------|-------|-------|---------|-----------|
| 10    | 2.655 | 2.752 | 2.704   | 2.553     |
| 5     | 2.111 | 2.275 | 2.193   | 2.042     |
| 2.5   | 1.486 | 1.465 | 1.476   | 1.325     |
| 1.25  | 0.769 | 0.799 | 0.784   | 0.633     |
| 0.625 | 0.485 | 0.462 | 0.474   | 0.323     |
| 0.312 | 0.372 | 0.399 | 0.386   | 0.235     |
| 0.156 | 0.251 | 0.264 | 0.258   | 0.107     |
| 0     | 0.152 | 0.150 | 0.151   | ?         |

## Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E14324h.pdf","filename":"MSDS"}}}