Creative Enzymes®

# Thio-Nicotinamide-Adenine Dinucleotide, Oxidized (Thio-NAD).

*Cat. No. NATE-0695*

*Lot. No.* (See product label)

## Introduction

| | |
|---|---|
| ***Description*** | An analog of NAD. Use of Thio-NAD instead of NAD as a substrate for NAD(+)-consuming enzymes is more advantageous since the reduced form of Thio-NAD exhibits a substantial increase in absorbance at 405 nM, the most commonly available wavelength on microplate readers. |
| ***Synonyms*** | Thio-NAD |

## Product Information

| | |
|---|---|
| ***EC Number*** | EC 1.1.1.1 |
| ***CAS No.*** | 4090-29-3 |
| ***Molecular Weight*** | 679.49 |
| ***Purity*** | Determined by increase in absorbance at 398 nm on enzymatic reduction with ADH*at pH 10.0 (more than 92%) *ADH = Alcohol dehydrogenase (yeast) (EC 1.1.1.1.) |
| ***Structure*** | C21H27N7O13SP2 |
| ***Specificity*** | Water content: < 10% by Karl Fischer |

## Storage and Shipping Information

| | |
|---|---|
| ***Storage*** | Keep tightly stoppered in the dark below 5°C. Moisture will reduce the purity. For prolonged storage, keep below-20°C. |