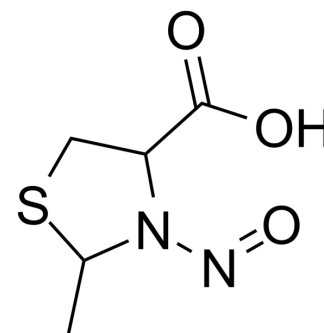


## NMTCA

Cat. No.:	HY-115773
CAS No.:	103659-08-1
Molecular Formula:	C <sub>5</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	176.19
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	NMTCA (NMTPRO) is a sulfur-containing N-nitrosamino acid. NMTCA can be used as an indicator of endogenous nitrosation by gas chromatography-thermalenergyanalysis <sup>[1][2]</sup> .
In Vitro	Smoking is one of the important factors in determining the amounts of NTCA and NMTCA in human urine <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

- [1]. Ohshima H, et al. Presence in human urine of new sulfur-containing N-nitrosamino acids: N-nitrosothiazolidine 4-carboxylic acid and N-nitroso 2-methylthiazolidine 4-carboxylic acid. IARC Sci Publ. 1984;(57):77-85.
- [2]. Tsuda M, et al. Increase in the levels of N-nitrosoproline, N-nitrosothiopropine and N-nitroso-2-methylthiopropine in human urine by cigarette smoking. Cancer Lett. 1986;30(2):117-124.
- [3]. Tsuda M, et al. Effect of cigarette smoking and dietary factors on the amount of N-nitrosothiazolidine 4-carboxylic acid and N-nitroso-2-methyl-thiazolidine 4-carboxylic acid in human urine. IARC Sci Publ. 1987;(84):446-450.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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