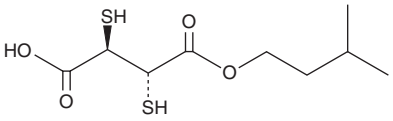
# PRODUCT INFORMATION

## MiADMSA

*Item No. 46337*

| | |
|---|---|
| **CAS Registry No.:** | 142609-62-9 |
| **Formal Name:** | *rel*-2R,3S-dimercapto-butanedioic acid, 1-(3-methylbutyl) ester |
| **Synonyms:** | MiADMS, Monoisoamyl DMSA, Monoisoamyl *meso*-2,3-Dimercaptosuccinic Acid |
| **MF:** | $C_9H_{16}O_4S_2$ |
| **FW:** | 252.3 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

MiADMSA is supplied as a solid. A stock solution may be made by dissolving the MiADMSA in the solvent of choice, which should be purged with an inert gas. MiADMSA is soluble (≥10 mg/ml) in ethanol and DMSO.

### Description

MiADMSA is a heavy metal chelator and an ester form of *meso*-2,3-dimercaptosuccinic acid (Item No. 28515).[1,2] MiADMSA (100 nM) inhibits arsenic-induced increases in reactive oxygen species (ROS), colony formation, and migration and prevents arsenic-induced decreases in glutathione (GSH) levels in NBT-II rat bladder cancer cells.[2] It reduces apoptosis and increases mitochondrial electron transport chain activity in rat neurons in a model of arsenic exposure.[1] Oral administration of MiADMSA (50 mg/kg) decreases brain arsenic levels and increases urinary levels in arsenic-exposed rats.

### References


1. Dwivedi, N., Mehta, A., Yadav, A., *et al.* MiADMSA reverses impaired mitochondrial energy metabolism and neuronal apoptotic cell death after arsenic exposure in rats. *Toxicol. Appl. Pharmacol.* **256(3)**, 241-248 (2011).
2. Sathua, K., Srivastava, S., and Flora, S.J.S. MiADMSA ameliorate arsenic induced urinary bladder carcinogenesis *in vivo* and *in vitro*. *Biomed. Pharmacother.* **128:110257**, (2020).



**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.

**WARRANTY AND LIMITATION OF REMEDY**
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