



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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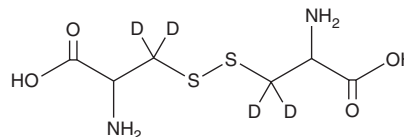
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# PRODUCT INFORMATION



## DL-Cystine-d<sub>4</sub> Item No. 30902

**CAS Registry No.:** 108641-83-4  
**Formal Name:** Cystine-3,3,3',3'-d<sub>4</sub>  
**MF:** C<sub>6</sub>H<sub>8</sub>D<sub>4</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>  
**FW:** 244.3  
**Chemical Purity:** ≥95% (Cystine)  
**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>4</sub>); ≤1% d<sub>0</sub>  
**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

DL-Cystine-d<sub>4</sub> is intended for use as an internal standard for the quantification of cystine by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

DL-Cystine-d<sub>4</sub> is supplied as a solid. A stock solution may be made by dissolving the DL-cystine-d<sub>4</sub> in the solvent of choice, which should be purged with an inert gas. DL-Cystine-d<sub>4</sub> is soluble in 1N hydrochloric acid.

### Description

DL-Cystine is a racemic mixture of D- and L-cystine. D-Cystine is an inactive enantiomer of L-cystine (Item No. 31727), an oxidized form of cysteine (Item No. 33309).<sup>1</sup>

### Reference

1. Baker, D.H. and Harter, J.M. D-cystine utilization by the chick. *Poult. Sci.* **57(2)**, 562-563 (1978).

**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**  
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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