Certificate of Analysis

Product Name: **DBHDA** **Catalog No.: 6175** **Batch No.: 1**

CAS Number: 99584-96-0

IUPAC Name: 2,5-Dibromohexanediamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_{10}Br_2N_2O_2$

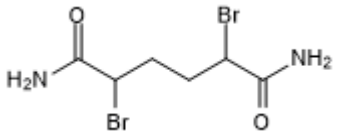
Batch Molecular Weight: 301.96

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	23.87	3.34	9.27
Found	24.1	3.23	9.27

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Product Information

Product Name: **DBHDA** **Catalog No.: 6175** **Batch No.: 1**

CAS Number: 99584-96-0

IUPAC Name: 2,5-Dibromohexanediamide

Description:

Reagent for synthetic biology; converts cysteine to dehydroalanine (Dha).

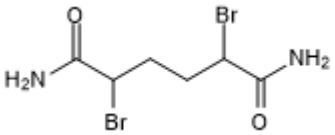
Physical and Chemical Properties:

Batch Molecular Formula: $C_6H_{10}Br_2N_2O_2$

Batch Molecular Weight: 301.96

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Mulder *et al* (2016) A cascading activity-based probe sequentially targets E1-E2-E3 ubiquitin enzymes. Nat.Chem.Biol. ***12*** 523. PMID: 27182664.

Wright *et al* (2016) Posttranslational mutagenesis: a chemical strategy for exploring protein side-chain diversity. Science ***354*** 1465. PMID: 27708059.

Lercher *et al* (2015) Generation of a synthetic GlcNAcylated nucleosome reveals regulation of stability by H2A-Thr101 GlcNAcylation. Nat.Commun. ***25*** 7978. PMID: 26305776.

Chalker *et al* (2011) Methods for converting cysteine to dehydroalanine on peptides and proteins. Chem. Sci. ***2*** 1666.

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