

Certificate of Analysis

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Product Name: TC-E 5002

Catalog No.: 5089

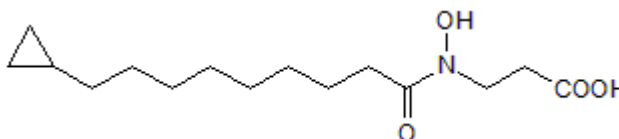
Batch No.: 1

CAS Number: 1453071-47-0

IUPAC Name: *N*-(9-Cyclopropyl-1-oxononyl)-*N*-hydroxy-β-alanine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₇NO₄
Batch Molecular Weight: 285.38
Physical Appearance: White solid
Solubility: 1eq. NaOH to 100 mM
 DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Chloroform:Methanol [9:1])
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.13	9.54	4.91
Found	62.91	9.42	4.98

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective histone demethylase KDM2/7 subfamily inhibitor (IC₅₀ values are 0.2, 1.2, 6.8, 55, 83, >100 and >120 μ M for KDM7A, KDM7B, KDM2A, KDM5A, KDM4C, KDM6A and KDM4A respectively). Inhibits growth of HeLa and KYSE-150 cancer cells in vitro.

Physical and Chemical Properties:

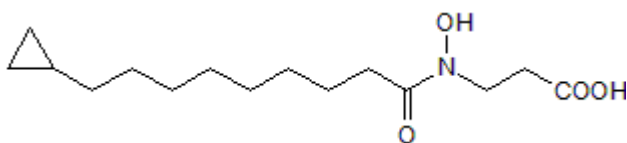
Batch Molecular Formula: C₁₅H₂₇NO₄

Batch Molecular Weight: 285.38

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

1eq. NaOH to 100 mM

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:

Suzuki *et al* (2013) Identification of the KDM2/7 histone lysine demethylase subfamily inhibitor and its antiproliferative activity. *J.Med.Chem.* **56** (7222). PMID: 23964788.

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