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## Produktinformation



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# Santacruzamate A

Ultrapotent HDAC2 inhibitor  
Catalog No. SIH-613



Discovery through Partnership | Excellence through Quality

## Product Name

Santacruzamate A

## Description

Ultrapotent HDAC2 inhibitor

## Purity

>98% (TLC); NMR (Conforms)

## CAS No.

1477949-42-0

## Molecular Formula

$C_{15}H_{22}N_2O_3$

## Molecular Weight

278.4

## Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

## Properties

### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inhibitor

### Solubility

May be dissolved in DMSO (25 mg/ml); or Ethanol (20 mg/ml)

## Source

Synthetic

## Appearance

Off-white powder

## SMILES

O=C(CCCNC(OCC)=O)NCCC1=CC=CC=C1, O=C(CCCNC(OCC)=O)NCCC1=CC=CC=C2,  
O=C(CCCNC(OCC)=O)NCCC1=CC=CC=C3

## InChI

InChI=1S/C15H22N2O3/c1-2-20-15(19)17-11-6-9-14(18)16-12-10-13-7-4-3-5-8-13/h3-5,7-8H,2,6,9-12H2,1H3,  
(H,16,18)(H,17,19)

## InChIKey

HTOYBIILVCHURC-UHFFFAOYSA-N

## Safety Phrases

GHS Hazard Statements: Not Classified

## Cite This Product

Santacruzamate A (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-613)

## Biological Description

### Alternative Names

N-[4-Oxo-4-[(2-phenylethyl)amino]butyl]-carbamic acid, ethyl ester

### Research Areas

Alzheimer's Disease, Apoptosis, Cancer, Neurodegeneration, Neuroscience

### PubChem ID

72946782

### Scientific Background

Santacruzamate A is a highly potent and selective inhibitor of HDAC2 isolated from the Panamanian marine cyanobacterium cf. *Symploca* (IC<sub>50</sub>=0.119 and 434 nM for HDAC2 and HDAC6 respectively) (1). It induces apoptosis and cancer cell death only in combination with other HDAC1 inhibitors (2). It has been investigated as a potential therapeutic agent for breast cancer (3). Attenuates A fragment (A 25-35)-induced toxicity in PC12 cells by enhancing ER stress tolerance<sup>4</sup>. Ameliorates Alzheimer's disease-like pathology in mouse models (4).

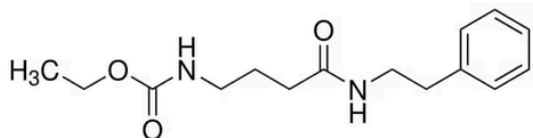
## References

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1. Pavlik C.M., et al. (2013) J. Nat. Prod. 76:2026
2. Zhou et al. H., (2018) Cell Prolif. 51(3):e12477
3. Damaskos C., et al. (2017) Anticancer Res. 37:35
4. Chen L., et al. (2019) Front. Cell. Neurosci. 13:61

## Product Images

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Chemical structure of Santacruzamate A (SIH-613), a Ultrapotent HDAC2 inhibitor. CAS #: 1477949-42-0. Molecular Formula: C<sub>15</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub>. Molecular Weight: 278.4 g/mol.

## Product Citations

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## Reviews

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There are no reviews yet.