

DATA SHEET

Product Name: Santacruzamate A

Catalog #: CV-1028

Alt: CAS # 1477949-42-0; N-[4-oxo-4-[(2-phenylethyl)amino]butyl]-carbamic acid, ethyl ester

Molecular Mass: 278.4

Analysis: >98% (HPLC); NMR (conforms)

Supplied As: Off-white powder

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

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to one month.

Description: A highly potent and selective inhibitor of HDAC2 isolated from the Panamanian marine cyanobacterium *cf. Symploca* (IC₅₀=0.119 and 434 nM for HDAC2 and HDAC6 respectively)¹. Induces apoptosis and cancer cell death only in combination with other HDAC1 inhibitors². Potential therapeutic agent for breast cancer³. Attenuates A β fragment (A β 25-35)-induced toxicity in PC12 cells by enhancing ER stress tolerance⁴. Ameliorates Alzheimer's disease-like pathology in mouse models⁴.

References:

1. Pavlik, C.M., et al., (2013) J. Nat. Prod., 76 : 2026
2. Zhou, H., et al., (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

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