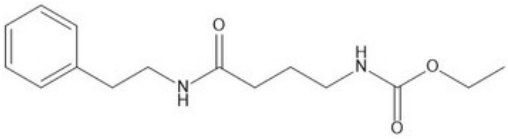
Tribioscience

Santacruzamate A, Ultrapotent HDAC2 inhibitor

Catalog	Unit
TBI3613-5MG	5 mg
TBI3613-25MG	25 mg

Product Details

Formal Name: N-[4-Oxo-4-[(2-phenylethyl)amino]butyl]-carbamic acid, ethyl ester
Molecular Formula: $C_{15}H_{22}N_2O_3$
Formula Weight: 278.35
CAS Number: 1477949-42-0
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 20 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

Ultrapotent HDAC2 inhibitor

Functions

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). Induces apoptosis and cancer cell death only in combination with other HDAC1 inhibitors. Potential therapeutic agent for breast cancer. Attenuates Aβ fragment ($A\beta_{25-35}$)-induced toxicity in PC12 cells by enhancing ER stress tolerance. Ameliorates Alzheimer's disease-like pathology in mouse models.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 2 months.

For research use only.

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