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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

A-485

Chemical Properties

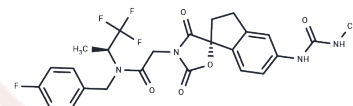
CAS No. : 1889279-16-6

Formula: C₂₅H₂₄F₄N₄O₅

Molecular Weight: 536.48

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	A-485 is a p300/CBP histone acetyltransferase (HAT) inhibitor that inhibits p300 and CBP (IC ₅₀ =9.8/2.6 nM) selectively. A-485 has antitumor effects, including several hematologic malignancies and androgen receptor-positive prostate cancer.
Targets(IC ₅₀)	Epigenetic Reader Domain,Histone Acetyltransferase
In vitro	<p>METHODS: 124 tumor cells were treated with A-485 for 3-5 days and cell viability was measured by the CellTiter-Glo Luminescent Cell Viability Assay.</p> <p>RESULTS: The broadest sensitivity was observed in hematologic tumors, where A-485 exhibited potent activity in most multiple myeloma (MM) cell lines, acute myeloid leukemia (AML) cell lines, and non-Hodgkin's lymphoma (NHL) cell lines. In contrast, several solid tumor lines, including melanoma, small cell lung cancer (SCLC), and triple-negative breast cancer (TNBC), showed significantly reduced sensitivity to A-485. [1]</p> <p>METHODS: H1650 and H1650-ER cells were treated with A-485 (20 μM) overnight, followed by TRAIL (10-100 ng/mL) overnight, and apoptosis was detected by apoptotic kit.</p> <p>RESULTS: The combination of A-485 and TRAIL significantly increased the total number of apoptotic cells in H1650 and H1650-ER cells compared to TRAIL alone.A-485 enhanced TRAIL-induced apoptosis. [2]</p>
In vivo	<p>METHODS: To assay in vivo anti-tumor activity, A-485 (100 mg/kg) was administered intraperitoneally twice daily for 21 days to SCID mice bearing LuCaP-77 CR xenografts.</p> <p>RESULTS: A-485 induced 54% tumor growth inhibition (TGI) after 21 days of administration. [1]</p>

Solubility Information

Solubility	DMSO: 60 mg/mL (111.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.864 mL	9.320 mL	18.640 mL
5 mM	0.3728 mL	1.864 mL	3.728 mL
10 mM	0.1864 mL	0.932 mL	1.864 mL
50 mM	0.0373 mL	0.1864 mL	0.3728 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lasko LM, et al. Discovery of a selective catalytic p300/CBP inhibitor that targets lineage-specific tumours. *Nature*. 2017 Oct 5;550(7674):128-132. doi: 10.1038/nature24028. Epub 2017 Sep 27. Erratum in: *Nature*. 2018 Jun;558

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481