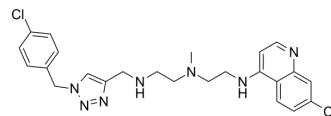


EAD1

Cat. No.:	HY-123056
CAS No.:	1644388-26-0
Molecular Formula:	C ₂₄ H ₂₇ Cl ₂ N ₇
Molecular Weight:	484.42
Target:	Autophagy; Apoptosis
Pathway:	Autophagy; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EAD1 is a potent autophagy inhibitor with antiproliferative activity in lung and pancreatic cancer cells. EAD1 also induces apoptosis ^[1] .																								
In Vitro	<p>EAD1 (0-200 μM; 72 hours) has antiproliferative activity against human cancer cell lines^[1].</p> <p>EAD1 (5-75 μM; 24 hours) induces apoptosis in the H460 cells in a concentration-dependent manner^[1].</p> <p>EAD1 (1-25 μM; 24 hour) increases the punctate LC3 signal in H460 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>H460 and HCC827 nonsmall cell lung cancer (NSCLC) and BxPC3 pancreatic cancer cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 50, 100, 150, 200 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>IC₅₀s of 11, 7.6, and 5.8 μM for H460, HCC827, and BxPC3 cells, respectively.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>H460 cells</td> </tr> <tr> <td>Concentration:</td> <td>5, 25, 50, and 75 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Induction of apoptosis.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>H460 cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 2.5, 5, 10, 25 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Caused concentration and time-dependent increases in LC3-II levels.</td> </tr> </table>	Cell Line:	H460 and HCC827 nonsmall cell lung cancer (NSCLC) and BxPC3 pancreatic cancer cells	Concentration:	0, 50, 100, 150, 200 μM	Incubation Time:	72 hours	Result:	IC ₅₀ s of 11, 7.6, and 5.8 μM for H460, HCC827, and BxPC3 cells, respectively.	Cell Line:	H460 cells	Concentration:	5, 25, 50, and 75 μM	Incubation Time:	24 hours	Result:	Induction of apoptosis.	Cell Line:	H460 cells	Concentration:	1, 2.5, 5, 10, 25 μM	Incubation Time:	24 hours	Result:	Caused concentration and time-dependent increases in LC3-II levels.
Cell Line:	H460 and HCC827 nonsmall cell lung cancer (NSCLC) and BxPC3 pancreatic cancer cells																								
Concentration:	0, 50, 100, 150, 200 μM																								
Incubation Time:	72 hours																								
Result:	IC ₅₀ s of 11, 7.6, and 5.8 μM for H460, HCC827, and BxPC3 cells, respectively.																								
Cell Line:	H460 cells																								
Concentration:	5, 25, 50, and 75 μM																								
Incubation Time:	24 hours																								
Result:	Induction of apoptosis.																								
Cell Line:	H460 cells																								
Concentration:	1, 2.5, 5, 10, 25 μM																								
Incubation Time:	24 hours																								
Result:	Caused concentration and time-dependent increases in LC3-II levels.																								

REFERENCES

[1]. Lars Ulrik Nordstrøm, et al. Discovery of Autophagy Inhibitors With Antiproliferative Activity in Lung and Pancreatic Cancer Cells. ACS Med Chem Lett. 2015 Jan 8;6(2):134-9.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA