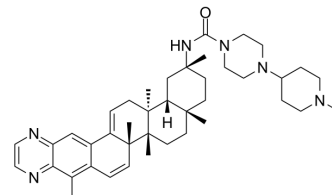


## Autophagy inducer 2

Cat. No.:	HY-144637
CAS No.:	2684238-37-5
Molecular Formula:	C <sub>41</sub> H <sub>58</sub> N <sub>6</sub> O
Molecular Weight:	650.94
Target:	Apoptosis; Autophagy
Pathway:	Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Autophagy inducer 2 (Compound 11i) is a potent autophagy inducer. Autophagy inducer 2 exhibits apparent antiproliferative activity against the MCF-7 cell line with an IC<sub>50</sub> value of 1.31 μM and remarkably inhibits the colony formation of the MCF-7 cells. Autophagy inducer 2 arrests the MCF-7 cells in the G2/M phase by regulating the cell-cycle-related proteins Cdk-1 and Cyclin B1. Autophagy inducer 2 has the potential for the research of breast cancer<sup>[1]</sup>.

### REFERENCES

[1]. Feng Y, et al. Scaffold hopping of celastrol provides derivatives containing pepper ring, pyrazine and oxazole substructures as potent autophagy inducers against breast cancer cell line MCF-7. *Eur J Med Chem.* 2022;234:114254.

**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