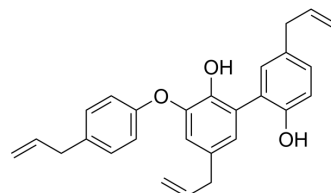


Isodunnianol

Cat. No.:	HY-N3486
CAS No.:	139726-30-0
Molecular Formula:	C ₂₇ H ₂₆ O ₃
Molecular Weight:	398.49
Target:	Autophagy
Pathway:	Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isodunnianol is an autophagy inducer. Isodunnianol induces autophagy and increases the expression of pAMPK172, pULK1555, decreases the expression of pULK1757, SQSTM2. Isodunnianol decreases Doxorubicin (HY-15142A)-induced cardiotoxicity ^[1] .																
In Vitro	<p>Isodunnianol (10 μM; 6, 24 h) induces autophagic and increases the expression of pAMPK172, pULK1555, decreases the expression of pULK1757, SQSTM2 in H9C2 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Autophagy Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>H9C2 cells</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>6, 24 h</td> </tr> <tr> <td>Result:</td> <td>Induced autophagic.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>H9C2 cells</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>6, 24 h</td> </tr> <tr> <td>Result:</td> <td>Significantly increased the expression of pAMPK172, pULK1555, decreased the expression of pULK1757, SQSTM2 in a time-dependent manner.</td> </tr> </table>	Cell Line:	H9C2 cells	Concentration:	10 μM	Incubation Time:	6, 24 h	Result:	Induced autophagic.	Cell Line:	H9C2 cells	Concentration:	10 μM	Incubation Time:	6, 24 h	Result:	Significantly increased the expression of pAMPK172, pULK1555, decreased the expression of pULK1757, SQSTM2 in a time-dependent manner.
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REFERENCES

[1]. Chen C, et al. Isodunnianol alleviates doxorubicin-induced myocardial injury by activating protective autophagy. Food Funct. 2019 May 22;10(5):2651-2657.

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