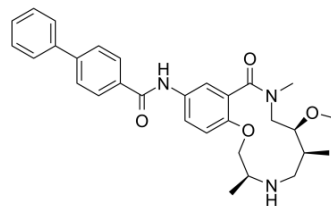


BRD5631

Cat. No.:	HY-125197
Molecular Formula:	C ₃₀ H ₃₅ N ₃ O ₄
Molecular Weight:	501.62
Target:	Autophagy
Pathway:	Autophagy
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	BRD5631 is an autophagy enhancer, enhances autophagy through an mTOR-independent pathway. BRD5631 affects several cellular disease phenotypes previously linked to autophagy, including protein aggregation, cell survival, bacterial replication, and inflammatory cytokine production ^[1] .								
IC ₅₀ & Target	Autophagy ^[1]								
In Vitro	<p>BRD5631 (10 μM, 48 hours) leads to increased levels of LC3-II in HeLa cells. BRD5631 stimulates formation of new autophagosomes, which is consistent with its ability to increase numbers of autolysosomes in the mCherry-GFP-LC3 assay^[1].</p> <p>BRD5631 does not enhance autophagy by directly inhibiting mTOR or the mTOR signaling pathway. BRD5631 suppressed IL-1β secretion in an autophagy-dependent manner^[1].</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HeLa cells.</td> </tr> <tr> <td>Concentration:</td> <td>10 μM.</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours.</td> </tr> <tr> <td>Result:</td> <td>Led to increased levels of LC3-II.</td> </tr> </table>	Cell Line:	HeLa cells.	Concentration:	10 μM.	Incubation Time:	48 hours.	Result:	Led to increased levels of LC3-II.
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Incubation Time:	48 hours.								
Result:	Led to increased levels of LC3-II.								

REFERENCES

[1]. Kuo SY, et al. Small-molecule enhancers of autophagy modulate cellular disease phenotypes suggested by human genetics. Proc Natl Acad Sci U S A. 2015 Aug 4;112(31):E4281-7.

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

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