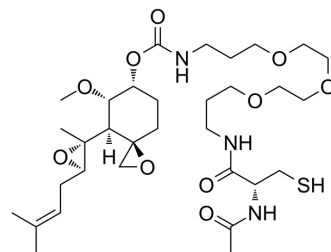


TSPO Ligand-Linker Conjugates 1

Cat. No.:	HY-147225
Molecular Formula:	C ₃₂ H ₅₅ N ₃ O ₁₀ S
Molecular Weight:	673.86
Target:	AUTACs; Mitophagy
Pathway:	PROTAC; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TSPO Ligand-Linker Conjugates 1 contains a ligand for translocator protein (TSPO) and a linker, which is used for the synthesis of mitochondria-targeting autophagy-targeting chimera (AUTAC). AUTAC can bind the TSPO on the outer mitochondrial membrane (OMM) of mitochondria and degrades impaired mitochondria and proteins via mitophagy, and improves mitochondrial activity. TSPO Ligand-Linker Conjugates 1 can be used in mitochondrial dysfunction related research, including neurodegenerative diseases, cancer, and diabetes ^[1] .								
In Vitro	<p>AUTAC (0-100 μM, 24 h) realizes targeted degradation of endogenous proteins in HeLa cells (MetAP2, FKBP12)^[1]. AUTAC (10 μM, 10 h) reverses mitochondrial dysfunction via K63-Linked ubiquitination in HeLa cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>HeLa cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1, 1, 10, 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>AUTAC degraded endogenous proteins (MetAP2, FKBP12).</td> </tr> </table>	Cell Line:	HeLa cells	Concentration:	0.1, 1, 10, 100 μM	Incubation Time:	24 h	Result:	AUTAC degraded endogenous proteins (MetAP2, FKBP12).
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Result:	AUTAC degraded endogenous proteins (MetAP2, FKBP12).								

REFERENCES

[1]. Daiki Takahashi, et al. AUTACs: Cargo-Specific Degradation Using Selective Autophagy. *Mol Cell*. 2019 Dec 5;76(5):797-810.e10.

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

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