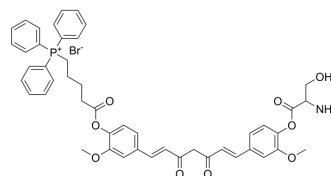


Ser@TPP@CUR

Cat. No.:	HY-151342
Molecular Formula:	C ₄₇ H ₄₇ BrNO ₉ P
Molecular Weight:	880.76
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ser@TPP@CUR is a Curcumin (HY-N0005) derivative. Ser@TPP@CUR effectively ameliorates injured renal tubular epithelial cells and improves renal functions of acute kidney injury (AKI) mice. Ser@TPP@CUR can be used for the research of AKI ^[1] .								
In Vitro	<p>Ser@TPP@CUR (7.16 µg/mL; 24 h) effectively reduces ROS level in inflammatory HK-2 cells^[1].</p> <p>Ser@TPP@CUR (3 µg/mL; 24 h) effects cell viability and inhibits expression levels of cytosolic cytochrome c, cleaved caspase-3, and cleaved caspase-9 of LPS-induced HK-2 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>LPS-induced HK-2 cell lines</td> </tr> <tr> <td>Concentration:</td> <td>3 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Significantly improved cell viability of LPS-induced HK-2 cells.</td> </tr> </table>	Cell Line:	LPS-induced HK-2 cell lines	Concentration:	3 µg/mL	Incubation Time:	24 hours	Result:	Significantly improved cell viability of LPS-induced HK-2 cells.
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Result:	Significantly improved cell viability of LPS-induced HK-2 cells.								
In Vivo	<p>Ser@TPP@CUR (4 mg/kg; i.v. once) shows a better distribution in renal tissues via KIM-1-receptor-mediated endocytosis in renal tubule epithelial cells and restores renal function of AKI mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>AKI mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>4 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intravenous injection; 4 mg/kg once</td> </tr> <tr> <td>Result:</td> <td>Showed a better distribution in renal tissues than CUR at 2 hours after injection and restored renal function of AKI mice by alleviated Scr and BUN levels.</td> </tr> </table>	Animal Model:	AKI mice ^[1]	Dosage:	4 mg/kg	Administration:	Intravenous injection; 4 mg/kg once	Result:	Showed a better distribution in renal tissues than CUR at 2 hours after injection and restored renal function of AKI mice by alleviated Scr and BUN levels.
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REFERENCES

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

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