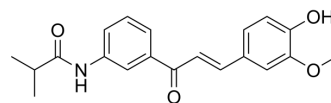


## Curcumin 5-8

Cat. No.:	HY-148598
CAS No.:	890984-26-6
Molecular Formula:	C <sub>20</sub> H <sub>21</sub> NO <sub>4</sub>
Molecular Weight:	339.39
Target:	Apoptosis; Autophagy
Pathway:	Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Curcumin 5-8 (CUR5-8) is a potent and orally active naturally active curcumin (CUR) analog. Curcumin 5-8 inhibits lipid droplet formation. Curcumin 5-8 increases <a href="#">autophagy</a> and inhibits <a href="#">Apoptosis</a> . Curcumin 5-8 improves insulin resistance and insulin sensitivity <sup>[1]</sup> .								
<b>In Vitro</b>	<p>Curcumin 5-8 (20 μM; 24 h) decreases PA (palmitic acid (HY-N0830))-induced SREBP1 expression levels and increases Bcl2/BAX expression in AML12 cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>AML12 cells</td> </tr> <tr> <td>Concentration:</td> <td>20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Significantly decreased PA-induced SREBP1 expression levels, increased Bcl2/BAX expression.</td> </tr> </table>	Cell Line:	AML12 cells	Concentration:	20 μM	Incubation Time:	24 h	Result:	Significantly decreased PA-induced SREBP1 expression levels, increased Bcl2/BAX expression.
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Result:	Significantly decreased PA-induced SREBP1 expression levels, increased Bcl2/BAX expression.								
<b>In Vivo</b>	<p>Curcumin 5-8 (100 mg/kg; diet; daily for 13 weeks) ameliorates insulin resistance and hepatic steatosis in mice with HFD (high-fat diet)-induced obesity<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>6-week-old males, 20 g, C57BL/6 mice<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>100 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Diet; daily for 13 weeks</td> </tr> <tr> <td>Result:</td> <td>Significantly suppressed the increases in the insulin level and HOMA-IR.</td> </tr> </table>	Animal Model:	6-week-old males, 20 g, C57BL/6 mice <sup>[1]</sup>	Dosage:	100 mg/kg	Administration:	Diet; daily for 13 weeks	Result:	Significantly suppressed the increases in the insulin level and HOMA-IR.
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### REFERENCES

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

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