



# SZABO SCANDIC

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### SZABO-SCANDIC HandelsgmbH

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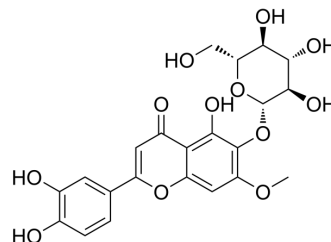
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## Pedaliin

<b>Cat. No.:</b>	HY-N9588
<b>CAS No.:</b>	22860-72-6
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>22</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	478.4
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Pedaliin is a bioactive component obtained from the ethanol extract of Sesame ( <i>Sesamum indicum</i> L.) leaves (SLs). Pedaliin shows in vitro antioxidant and anti-colon cancer efficacy with radical scavenging activity and ferric reducing antioxidant power (FRAP) <sup>[1][2]</sup> .								
<b>In Vitro</b>	<p>Pedaliin (0-35 μM; 72 h) dose-dependently attenuates the growth of human colon cancer cells, HT29 and HCT116<sup>[1]</sup>. Pedaliin (3.5-35 μM; 30 min; 37 °C) has ferric reducing antioxidant power (FRAP)<sup>[1]</sup>. Pedaliin (7 μM; 48 h) alleviates invasion and migration of HT29 and HCT116 cells in non-cytotoxic conditions<sup>[1]</sup>. Pedaliin (20 μL) shows high 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical scavenging, oxygen radical absorbance capacity (ORAC), and in vitro antiglycation activities, and inhibits BSA glycation with an IC<sub>50</sub> value of 41.8 μM<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HCT116 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 3.5, 7, 17.5, and 35 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours or 72 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth (72 h) by 24% at 3.5-35 μM, invasion (48 h) by 18% at 7 μM, and migration (48 h) by 33% at 7 μM.</td> </tr> </table>	Cell Line:	HCT116 cells	Concentration:	0, 3.5, 7, 17.5, and 35 μM	Incubation Time:	48 hours or 72 hours	Result:	Inhibited cell growth (72 h) by 24% at 3.5-35 μM, invasion (48 h) by 18% at 7 μM, and migration (48 h) by 33% at 7 μM.
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### REFERENCES

- [1]. Kim S, et al. In Vitro Antioxidant and Anti-Colon Cancer Activities of *Sesamum indicum* L. Leaf Extract and Its Major Component, Pedaliin. *Foods*. 2021 May 27;10(6):1216.
- [2]. Fuji Y, et al. Chemical characterization and biological activity in young sesame leaves (*Sesamum indicum* L.) and changes in iridoid and polyphenol content at different growth stages. *PLoS One*. 2018 Mar 27;13(3):e0194449.

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

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