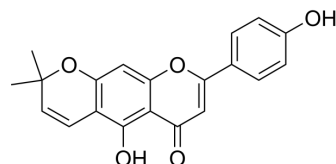


## Carpachromene

Cat. No.:	HY-N3542
CAS No.:	57498-96-1
Molecular Formula:	C <sub>20</sub> H <sub>16</sub> O <sub>5</sub>
Molecular Weight:	336.34
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Carpachromene is a potent $\alpha$ -glucosidase enzyme inhibitor. Carpachromene ameliorates insulin resistance in HepG2 cells via modulating IR/IRS1/PI3k/Akt/GSK3/FoxO1 pathway <sup>[1]</sup> .
<b>In Vitro</b>	Carpachromene (0-100 $\mu$ g/mL, 48 h) exhibits cytotoxicity against HepG2, HepG2/IRM, PLC/PRF/5 and Raji cancer cell lines <sup>[1]</sup> . Carpachromene (20 $\mu$ g/mL) significantly increases the protein expression ratios of IR, IRS1, PI3K, Akt, GSK3, and FoxO1 in HepG2/IRM cells <sup>[1]</sup> . Carpachromene (20 $\mu$ g/mL) improves cellular glycogen synthesis in HepG2/IRM cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Alaaeldin R, et al. Carpachromene Ameliorates Insulin Resistance in HepG2 Cells via Modulating IR/IRS1/PI3k/Akt/GSK3/FoxO1 Pathway. *Molecules*. 2021 Dec 16;26(24):7629.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA