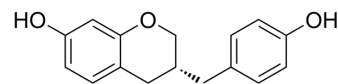


## (3R)-7-hydroxy-3-(4-hydroxybenzyl)chromane

<b>Cat. No.:</b>	HY-N8917
<b>CAS No.:</b>	1180504-64-6
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>16</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	256.3
<b>Target:</b>	Phosphatase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	(3R)-7-hydroxy-3-(4-hydroxybenzyl)chromane is a homoisoflavonoid. (3R)-7-hydroxy-3-(4-hydroxybenzyl)chromane increases the level of alkaline phosphatase (ALP) activity. (3R)-7-hydroxy-3-(4-hydroxybenzyl)chromane promotes mesenchymal stem cells (MSCs) osteogenesis, but cannot enhance MSCs proliferation. (3R)-7-hydroxy-3-(4-hydroxybenzyl)chromane can be used for osteoporosis research <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Alkaline phosphatase (ALP) <sup>[1]</sup>
<b>In Vitro</b>	(3R)-7-hydroxy-3-(4-hydroxybenzyl)chromane (10 μM) significantly promotes MSCs osteogenic differentiation by increasing the level of alkaline phosphatase (ALP) activity which indicated early-stage of osteoblast differentiation to percent of 162.0 ± 1.4 in relative to the control <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Xu X, et al. Isolation and characterization of homoisoflavonoids from *Dracaena cochinchinensis* and their osteogenic activities in mouse mesenchymal stem cells. *J Pharm Biomed Anal.* 2016 Sep 10;129:466-472.

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

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