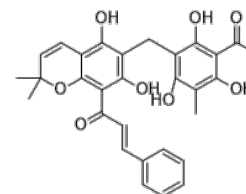


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<b>Product Name</b>	: Rottlerin
<b>Cat. No.</b>	: PC-61793
<b>CAS No.</b>	: 82-08-6
<b>Molecular Formula</b>	: C <sub>30</sub> H <sub>28</sub> O <sub>8</sub>
<b>Molecular Weight</b>	: 516.54
<b>Target</b>	: PKC
<b>Solubility</b>	: 10 mM in DMSO



## Biological Activity

Rottlerin (Mallotoxin, NSC 94525) is a polyphenol natural product, cell-permeable and reversible **PKC** inhibitor that exhibits greater selectivity for **PKC $\delta$**  (IC<sub>50</sub>=3-6  $\mu$ M) and PKC $\theta$ , with significantly reduced potency (IC<sub>50</sub>=30-42  $\mu$ M) for PKC $\alpha$ , PKC $\beta$ , and PKC $\gamma$ .

Rottlerin (Mallotoxin, NSC 94525) also inhibits CaMK III, suppresses eEF-2 phosphorylation with IC<sub>50</sub> of 5.3  $\mu$ M.

Rottlerin (Mallotoxin, NSC 94525) also remarkably inhibits MACC1 promoter activity and expression, reduces cell motility in CRC cells.

## References

Villalba M, et al. *J Immunol.* 1999 Dec 1;163(11):5813-9.

Gschwendt M, et al. *FEBS Lett.* 1994 Jan 24;338(1):85-8.

Juneja M, et al. *PLoS Biol.* 2017 Jun 1;15(6):e2000784.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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