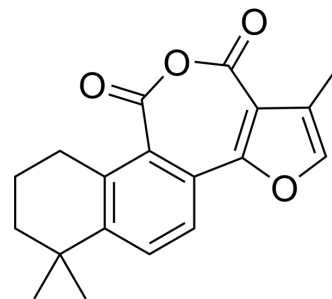


## Tanshinone IIA anhydride

<b>Cat. No.:</b>	HY-N10686
<b>CAS No.:</b>	61077-78-9
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>18</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	310.34
<b>Target:</b>	Carboxylesterase
<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>	Tanshinone IIA anhydride is a potent and irreversible human carboxylesterase (CE) inhibitor with K <sub>i</sub> values of 1.9 nM and 1.4 nM for human CE1 and the human intestinal CE (hiCE), respectively <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Ki: 1.9 nM (Human carboxylesterase (CE)) and 1.4 nM (human intestinal CE) <sup>[1]</sup>

### REFERENCES

[1]. M Jason Hatfield, et al. Potent, Irreversible Inhibition of Human Carboxylesterases by Tanshinone Anhydrides Isolated from *Salvia miltiorrhiza* ("Danshen"). *J Nat Prod.* 2018 Nov 26;81(11):2410-2418.

[2]. M Jason Hatfield, et al. Potent, Irreversible Inhibition of Human Carboxylesterases by Tanshinone Anhydrides Isolated from *Salvia miltiorrhiza* ("Danshen"). *J Nat Prod.* 2018 Nov 26;81(11):2410-2418.

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

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