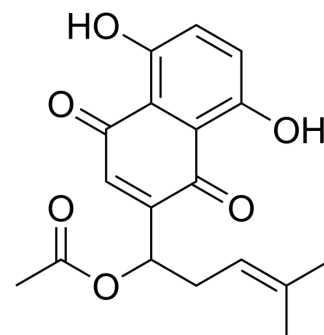


## DL-Acetylshikonin

<b>Cat. No.:</b>	HY-N2181A
<b>CAS No.:</b>	54984-93-9
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>18</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	330.33
<b>Target:</b>	Cytochrome P450
<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>	DL-Acetylshikonin is a non-selective, reversible cytochrome P450 inhibitor with IC <sub>50</sub> values of 1.4-4.0 μM. DL-Acetylshikonin has anti-cancer and anti-inflammatory activities <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	CYP2C8 1.4 μM (IC <sub>50</sub> )	CYP2B6 2.0 μM (IC <sub>50</sub> )	CYP3A 2.3 μM (IC <sub>50</sub> )	CYP2C19 2.5 μM (IC <sub>50</sub> )
	CYP2D6 2.5 μM (IC <sub>50</sub> )	CYP2E1 2.7 μM (IC <sub>50</sub> )	CYP2C9 3.3 μM (IC <sub>50</sub> )	CYP2J2 3.3 μM (IC <sub>50</sub> )
	CYP2A6 3.8 μM (IC <sub>50</sub> )	CYP1A2 4.0 μM (IC <sub>50</sub> )		
<b>In Vitro</b>	DL-Acetylshikonin inhibits CYP3A-mediated testosterone and <a href="#">Nifedipine</a> (HY-B0284) metabolism with IC <sub>50</sub> values of 5.2 μM and 3.0 μM, respectively, indicating that it inhibits CYP3A activity in a substrate-independent manner <sup>[1]</sup> . DL-Acetylshikonin is not a time-dependent inhibitor <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

### REFERENCES

[1]. Shon JC, et al. Acetylshikonin is a novel non-selective cytochrome P450 inhibitor. *Biopharm Drug Dispos.* 2017 Dec;38(9):553-556.

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

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