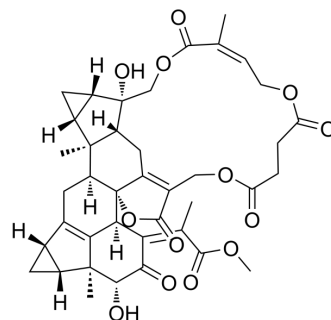


## Shizukaol B

<b>Cat. No.:</b>	HY-N8371
<b>CAS No.:</b>	142279-40-1
<b>Molecular Formula:</b>	C <sub>40</sub> H <sub>44</sub> O <sub>13</sub>
<b>Molecular Weight:</b>	732.77
<b>Target:</b>	NO Synthase; COX; Interleukin Related; TNF Receptor
<b>Pathway:</b>	Immunology/Inflammation; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Shizukaol B is a lindenane-type dimeric sesquiterpene, used to be isolated from the whole plant of <i>Chloranthus henryi</i> . Shizukaol B has anti-inflammatory effect against lipopolysaccharide (LPS)-induced activation of BV2 microglial cells. Shizukaol B inhibits iNOS and COX-2, and suppresses NO production, TNF- $\alpha$ , and IL-1 $\beta$ expression <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	COX-2	iNOS	IL-1 $\beta$
<b>In Vitro</b>	Shizukaol B (25 $\mu$ M; 0-60 min) inhibits LPS-mediated (1 $\mu$ g/mL; 0-60 min) c-Jun N-terminal kinase 1/2 (JNK) activation, without affecting ERK1/2 or p38 phosphorylation <sup>[1]</sup> . Shizukaol B (12.5-50 $\mu$ M; 4 h) inhibits LPS-induced (1 $\mu$ g/mL; 24 h) NO production and expression of iNOS and COX-2 in BV2 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

### REFERENCES

[1]. Pan LL, et al. Shizukaol B, an active sesquiterpene from *Chloranthus henryi*, attenuates LPS-induced inflammatory responses in BV2 microglial cells. *Biomed Pharmacother.* 2017 Apr;88:878-884.

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

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