Tanshinol borneol ester

Cat. No.: HY-142019

CAS No.: 1623012-10-1

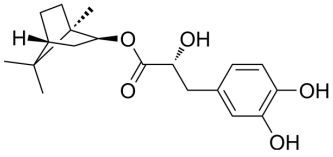
Molecular Formula: $C_{19}H_{26}O_5$

Molecular Weight: 334.41

Target: Akt; AMPK

Pathway: PI3K/Akt/mTOR; Epigenetics

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tanshinol borneol ester, an angiogenesis stimulator, promoted multiple key steps of angiogenesis through Akt and MAPK signalling pathways. Tanshinol borneol ester has anti-ischemic and anti-atherosclerosis activities[1].	
IC_{50} & Target	Akt	AMPK

In Vivo

Tanshinol borneol ester (DBZ; 0.2, 1, and 5 mg/kg; IP; daily; 8 days) produces significant increases in blood content and microvessel formation[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 mouse Matrigel plug model[1]
Dosage:	0.2, 1, and 5 mg/kg
Administration:	IP; daily; 8 days
Result:	Produced significant increases in blood content compared with vehicle control, while no significant increase in haemoglobin content at the highest dose (25 mg/kg). Significantly increased microvessel formation.

REFERENCES

[1]. Sha Liao, et al. Tanshinol borneol ester, a novel synthetic small molecule angiogenesis stimulator inspired by botanical formulations for angina pectoris.

[2]. Pu Jia, et al. The anti-atherosclerotic effect of tanshinol borneol ester using fecal metabolomics based on liquid chromatography-mass spectrometry. Analyst. 2016 Feb 7;141(3):1112-20.

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