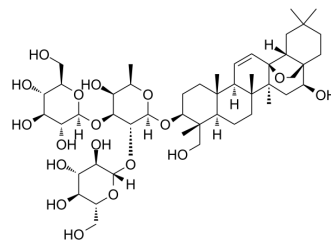


## Buddlejasaponin IV

<b>Cat. No.:</b>	HY-125131
<b>CAS No.:</b>	139523-30-1
<b>Molecular Formula:</b>	C <sub>48</sub> H <sub>78</sub> O <sub>18</sub>
<b>Molecular Weight:</b>	943.12
<b>Target:</b>	NO Synthase; COX
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Buddlejasaponin IV (BS-IV) exerts anti-inflammatory and cytotoxic effects against cancer cells <sup>[1]</sup> .
<b>In Vitro</b>	Buddlejasaponin IV induces cell cycle arrest at G2/M phase and apoptosis in immortalized human oral keratinocytes <sup>[1]</sup> . Buddlejasaponin IV (BS-IV) exhibits anti-inflammatory effect of through the inhibition of iNOS and COX-2 expression in RAW 264.7 macrophages via the NF-κB inactivation <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Young Sun Hwang, et al. Buddlejasaponin IV induces cell cycle arrest at G2/M phase and apoptosis in immortalized human oral keratinocytes. *Phytother Res.* 2011 Oct;25(10):1503-10.
- [2]. Jong-Heon Won, et al. Anti-inflammatory effect of buddlejasaponin IV through the inhibition of iNOS and COX-2 expression in RAW 264.7 macrophages via the NF-κB inactivation. *Br J Pharmacol.* 2006 May;148(2):216-25.

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

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