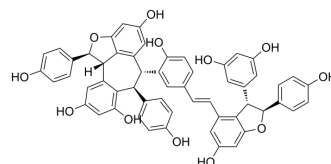


## Vitisin A

Cat. No.:	HY-142026
CAS No.:	142449-89-6
Molecular Formula:	C <sub>56</sub> H <sub>42</sub> O <sub>12</sub>
Molecular Weight:	906.93
Target:	NF-κB; ERK
Pathway:	NF-κB; MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Vitisin A has antioxidative, anticancer, antiapoptotic, neuroprotective and anti-inflammatory effects. Vitisin A inhibits LPS-induced NO and iNOS production via down-regulation of ERK1/2 and p38 and the NF-κB signal pathway. Vitisin A also inhibits adipocyte differentiation. Vitisin A is a resveratrol tetramer that can be isolated from *Vitis vinifera* roots<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Mi Jeong Sung, et al. Vitisin A suppresses LPS-induced NO production by inhibiting ERK, p38, and NF-kappaB activation in RAW 264.7 cells. *Int Immunopharmacol.* 2009 Mar;9(3):319-23.
- [2]. Kim SH, et al. Vitisin A inhibits adipocyte differentiation through cell cycle arrest in 3T3-L1 cells. *Biochem Biophys Res Commun.* 2008 Jul 18;372(1):108-13.
- [3]. Choi J, et al. The central administration of vitisin a, extracted from *Vitis vinifera*, improves cognitive function and related signaling pathways in a scopolamine-induced dementia model. *Biomed Pharmacother.* 2023 Jul;163:114812.

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

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