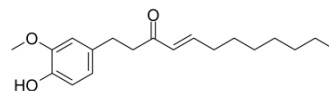


[8]-Shogaol

Cat. No.:	HY-N2435
CAS No.:	36700-45-5
Molecular Formula:	C ₁₉ H ₂₈ O ₃
Molecular Weight:	304.42
Target:	COX; Apoptosis
Pathway:	Immunology/Inflammation; Apoptosis
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	[8]-Shogaol, one of the pungent phenolic compounds in ginger, exhibits anti-platelet activity (IC ₅₀ =5 μM) and inhibits COX-2 (IC ₅₀ =17.5 μM). [8]-Shogaol induces apoptosis in human leukemia cells ^{[1][2][3][4]} .
IC ₅₀ & Target	COX-2 17.5 μM (IC ₅₀)

REFERENCES

- [1]. Shieh PC, et al. Induction of apoptosis by [8]-shogaol via reactive oxygen species generation, glutathione depletion, and caspase activation in human leukemia cells. *J Agric Food Chem.* 2010 Mar 24;58(6):3847-54.
- [2]. van Breemen RB, et al. Cyclooxygenase-2 inhibitors in ginger (*Zingiber officinale*). *Fitoterapia.* 2011 Jan;82(1):38-43.
- [3]. Nurtjahja-Tjendraputra E, et al. Effective anti-platelet and COX-1 enzyme inhibitors from pungent constituents of ginger. *Thromb Res.* 2003;111(4-5):259-65.
- [4]. Shieh PC, et al. Induction of apoptosis by [8]-shogaol via reactive oxygen species generation, glutathione depletion, and caspase activation in human leukemia cells. *J Agric Food Chem.* 2010 Mar 24;58(6):3847-54.

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

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