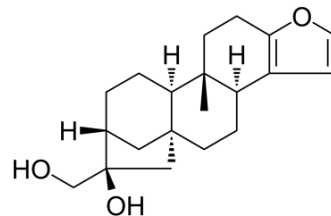


Cafestol

Cat. No.:	HY-N6257
CAS No.:	469-83-0
Molecular Formula:	C ₂₀ H ₂₈ O ₃
Molecular Weight:	316.43
Target:	ERK; PGE synthase; COX; NF-κB
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt; Immunology/Inflammation; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Cafestol, one of the major components of coffee, is a coffee-specific diterpene from. Cafestol is a ERK inhibitor for AP-1-targeted activity against PGE ₂ production and the mRNA expression of cyclooxygenase (COX)-2 in LPS-activated RAW264.7 cells. Cafestol has strong inhibitory activity on PGE ₂ production by suppressing the NF-κB activation pathway. Cafestol contributes to its beneficial effects through various biological activities such as chemopreventive, antitumorigenic, hepatoprotective, antioxidative and antiinflammatory effects ^[1] .		
IC₅₀ & Target	ERK	COX-2	NF-κB

REFERENCES

[1]. Shen T, et al. Cafestol, a coffee-specific diterpene, is a novel extracellular signal-regulated kinase inhibitor with AP-1-targeted inhibition of prostaglandin E2 production in lipopolysaccharide-activated macrophages. Biol Pharm Bull. 2010;33(1):128-32.

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

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