

Product Name	: CAFESTOL
Synonyms	: —
Cat No.	: M20445
CAS Number	: 469-83-0
Molecular Formula	: C ₂₀ H ₂₈ O ₃
Formula Weight	: 316.43
Chemical Name	: (3bS5aS7R8R10aR10bS)-7-(Hydroxymethyl)-10b-methyl-3b4567891010a10b1112-dodecahydro-5a8-methanocyclohepta[5,6]naphtho[2,1-b]furan-7-ol
Description	: CAFESTOL is a ERK inhibitor for AP-1-targeted activity against PGE2 production and the mRNA expression of cyclooxygenase (COX)-2 in LPS-activated RAW264.7 cells. Cafestol has strong inhibitory activity on PGE2 production by suppressing the NF-κB activation pathway.
Pathway	: MAPK/ERK Signaling
Target	: ERK
Receptor	: ERK; COX-2; NF-κB
Solubility	: DMSO: 5 mg/mL (15.8 mM)
SMILES	: <chem>[H][C@]12CC[C@@]34C[C@@H](CC[C@@]3([H])[C@]1(C)CCc1occc21)[C@@](O)(CO)C4</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Shen T, Lee J, Lee E 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[J]. Biological & Pharmaceutical Bulletin 2010 33(1):128-132.