

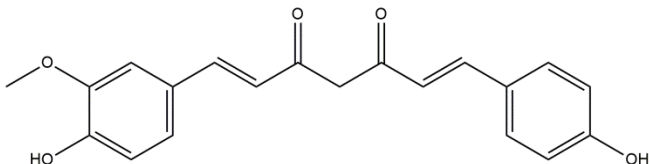
Demethoxycurcumin

11/19

ALTERNATE NAMES: (1E,6E)-1-(4-hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)hepta-1,6-diene-3,5-dione; Curcumin II; Desmethoxycurcumin; Monodemethoxycurcumin; Feruloyl-P-hydroxycinnamoylmethane; feruloyl-p-coumaroylmethane; 1-(4-Hydroxystyryl)-3-(3-methoxy-4-hydroxystyryl)propanedial; (1E,4Z,6E)-5-Hydroxy-1-(4-hydroxy-3-methoxy-phenyl)-7-(4-hydroxy-phenyl)-hepta-1,4,6-trien-3-one

CATALOG #: B2945-5 5 mg
B2945-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₁₈O₅

MOLECULAR WEIGHT: 338.35

CAS NUMBER: 24939-17-1, 22608-11-3

APPEARANCE: A crystalline solid

PURITY: 95%

SOLUBILITY: ~0.5 mg/ml in Ethanol
~10 mg/ml in DMSO and DMF

DESCRIPTION: Demethoxycurcumin is a curcumin derivative with anti-inflammatory and anti-proliferative properties. It suppresses tumor necrosis factor (TNF)-induced nuclear factor-kappaB (NF-kappaB) activation in KBM-5 cells at 25 µM. It inhibits proliferation of different cell lines such as Jurkat, U937, KBM-5 and H1299 at 25 µM. It suppresses transcriptional coactivator p300 and inhibits the Wnt/beta-catenin pathway.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Sandur, S.K., Pandley, M.K., Ahn, K.S., et al. Curcumin, demethoxycurcumin, bisdemethoxycurcumin, tetrahydrocurcumin and turmerones differentially regulate anti-inflammatory and anti-proliferative responses through a ROS-independent mechanism. *Carcinogenesis* 28(8), 1765-1773 (2007).
2. Ryu, M.J., Cho, M., Song, J.Y., et al. Natural derivatives of curcumin attenuate the Wnt/β-catenin pathway through down-regulation of the transcriptional coactivator p300. *Biochemical and Biophysical Research Communications* 377(4), 1304-1308 (2008).

RELATED PRODUCTS:

Sulforaphane (Cat. No. B2801)
 Bisdemethoxycurcumin (Cat. No. B2944)
 Curcumin, *Curcuma longa* (High Purity) (Cat. No. 1850)
 Delphinidin (chloride) (Cat. No. B2807)
 Piperine (Cat. No. B2086)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**