Curcumin

(Catalog No. M35000)

Alternative Names
(E,E)-1,7-bis(4-Hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione Diferuloylmethane Diferulylmethane

Description
Curcumin is a yellow-orange dye obtained from tumeric, the powdered root of Curcuma longa; it is employed in the preparation of curcuma paper, the detection of boron, and possesses a vast number of biological targets. Curcumin has been shown to inhibit NF-κB (possibly thru inhibition of JNK; IC50=10 μM), blocks amyloid peptide induced expression of: TNF-α, IL-1β, MCP-1, IL-8, and CCR5, regulates NOS2, inhibits IgE and Ag-induced degranulation of mast cells, inhibits 5-LO (5-lipoxygenase; IC50=8 μM), Cox-2 (cyclooxygenase-2; IC50=52 μM), the COP9 signalosome kinase (IC50=10 μM), and p300/CBP. This wide range of activities makes Curcumin an extremely useful tool for developing novel analogous molecules and discovering new uses for this naturally occurring compound.

CAS Number
458-37-7

Chemical Formula
$C_{21}H_{20}O_6$

Molecular Weight
368.38

Size
1 g

Purity
≥95%

Solubility
Soluble in water, ethanol (10 mg/ml), DMSO (25 mg/ml) and acetic acid

Storage Temp
-20°C

Ordering Information:

Products	Size	Cat. No.
Curcumin	1 g	M35000 -1