

Demethoxycurcumin

Catalog No: tcsc3738

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:

22608-11-3

Formula:

C₂₀H₁₈O₅

Pathway: Apoptosis;Autophagy

Target: Apoptosis;Autophagy

Purity / Grade:

Solubility:

10 mM in DMSO

Alternative Names:

Curcumin II;Desmethoxycurcumin;Monodemethoxycurcumin

Observed Molecular Weight:

338.35

Product Description

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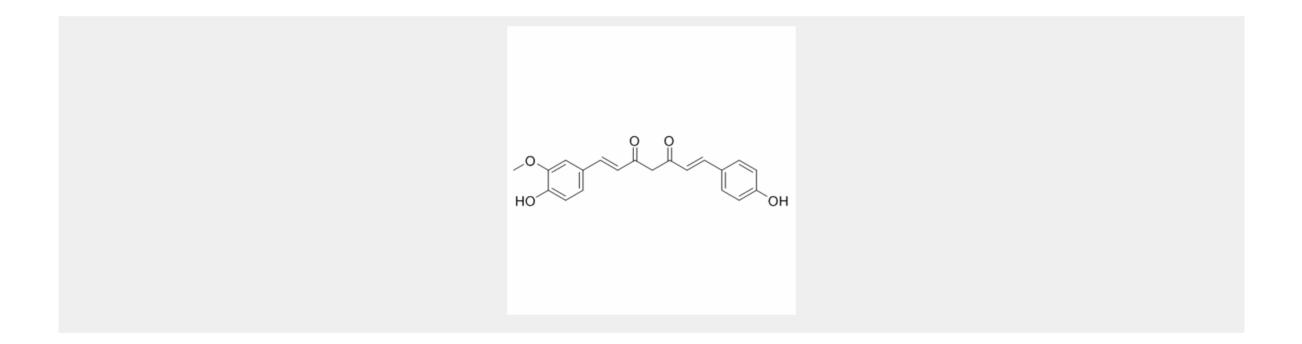
Demethoxycurcumin(Curcumin II) is a major active curcuminoid; possess anti-inflammatory properties; also exert cytotoxic effects in human cancer cells via induction of apoptosis.

IC50 value:

Target:

in vitro: DMC significantly decreased NO secretion by 35-41% in our inflamed cell model. Decrease in NO production by DMC was concomitant with down-regulation of iNOS at mRNA and protein levels compared to proinflammatory cytokine cocktail and LPS-treated controls. Mechanism of action of DMC may be partly due to its potent inhibition of the iNOS pathway [1]. BDMCCN has the strongest inhibitory activity toward BACE-1 with 17 µM IC50, which was 20 and 13 times lower than those of CCN and DMCCN respectively [2]. Genes associated with DNA damage and repair, cell-cycle check point and apoptosis could be altered by DMC; in particular, 144 genes were found up-regulated and 179 genes down-regulated in NCI-H460 cells after exposure to DMC [3].

in vivo: At low doses, both the curcuminoid mixture and curcumin I did not affect brain stimulation reward, whereas, higher doses increased ICSS thresholds. Curcumin II and curcumin III did not affect brain stimulation reward at any doses. Subthreshold doses of the curcuminoid mixture and curcumin I inhibited the reward-facilitating effect of morphine.



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