

## Product Information

### Demethoxycurcumin

CAT#: INH-001

#### Product Information

<b>Description/Features</b>	Demethoxycurcumin (DMC) is a natural demethoxy derivative of curcumin with anti-inflammatory and anti-cancer properties. DMC suppresses cell proliferation, migration and invasion in cancer cells. It down-regulates the transcriptional coactivator p300, suppressing the Wnt/ $\beta$ -catenin pathway, and inhibits lipopolysaccharide induction of iNOS by blocking NF- $\kappa$ activation. It also has been shown to inhibit energy metabolic and oncogenic signaling pathways through AMPK activation. In addition it is a potent inhibitor of P-Type ATPases. Shown to have neuroprotective properties. It also has anti-plasmodial activity.
<b>Origin</b>	Plant
<b>Forms</b>	Yellow to orange powder.
<b>Purity</b>	$\geq 98\%$ (HPLC)
<b>Formula</b>	C <sub>20</sub> H <sub>18</sub> O <sub>5</sub>
<b>MW</b>	338.35
<b>CAS</b>	22608-11-3
<b>Solubility</b>	Soluble in DMSO (10mg/ml) or DMF (10mg/ml).
<b>Identity</b>	Determined by <sup>1</sup> H-NMR.
<b>Synonyms</b>	DMC; (E,E)-1-(4-Hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-1,6-heptadiene-3,5-dione; Desmethoxycurcumin; Monodemethoxycurcumin
<b>Storage</b>	Protect from light and moisture. Stable for at least 2 years after receipt when stored at +4°C.