

# Octahydrocurcumin

Catalog No: tcsc3740



## Available Sizes

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

36062-07-4

**Formula:**

$C_{21}H_{28}O_6$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

Hexahydrobisdemethoxycurcumin

**Observed Molecular Weight:**

376.44

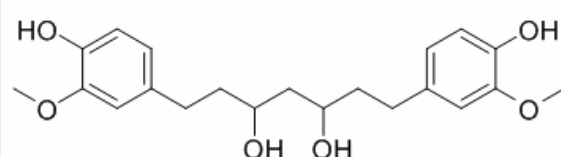
## Product Description

Octahydrocurcumin is a hydrogenated derivatives of curcumin; metabolite of curcumin.

IC50 value:

Target:

OKT3-induced PBMC proliferation was inhibited by octahydrocurcumin with IC50 of 82  $\mu$ M. The investigated substances with the strongest effect on radical scavenging were tetrahydro-, hexahydro-, and octahydrocurcumin with IC50 values of 10.0, 11.7, and 12.3  $\mu$ M, respectively [1]. curcumin and tetrahydrocurcumin significantly inhibited the release of prominent cytokines, including tumor necrosis factor  $\alpha$  (TNF  $\alpha$ ) and interleukin 6 (IL 6); however, hexahydrocurcumin and octahydrocurcumin did not significantly alter cytokine release [2]. Hydrogenated derivatives of curcumin exhibited stronger DPPH scavenging activity compared to curcumin and a reference antioxidant, trolox. The scavenging activity significantly decreased in the order THC>HHC=OHC>trolox>curcumin>Dmc>>>Bdmc [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!