

# Dimethylcurcumin

Catalog No: tcsc0533



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

52328-98-0

**Formula:**

$C_{23}H_{24}O_6$

**Pathway:**

Others

**Target:**

Androgen Receptor

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

ASC-J9;GO-Y025

**Observed Molecular Weight:**

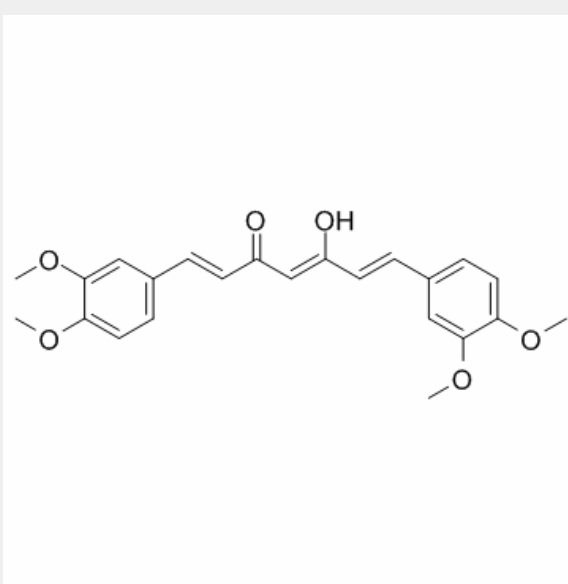
396.43

## Product Description

Dimethylcurcumin (ASC-J9) is an **androgen receptor** degradation enhancer that effectively suppresses castration resistant prostate cancer cell proliferation and invasion.

**In Vitro:** Dimethylcurcumin (ASC-J9) is able to degrade fAR and AR3 in a dose-dependent manner in various human PCa cells. Dimethylcurcumin (ASC-J9) can also effectively suppress AR-targeted genes in CWR22Rv1-fARKD cells. Dimethylcurcumin (ASC-J9) (5 or 10  $\mu$ M) significantly suppresses the DHT-induced cell growth in all three PCa cell lines. Dimethylcurcumin (ASC-J9) suppresses AR-targeted genes and cell growth by degradation of fAR and ectopic AR3 in C81 and C4-2 cells<sup>[1]</sup>. Dimethylcurcumin (ASC-J9) selectively promotes AR degradation by disrupting the interaction between AR and AR coregulators. ASC-J9 reduces the AR aggregated AR-112Q in cells. Dimethylcurcumin (ASC-J9) suppresses the aggregation of AR-112Q in SBMA PC12/AR-112Q cells<sup>[2]</sup>.

**In Vivo:** Dimethylcurcumin (ASC-J9) (75 mg/kg, i.p.) degrades both fAR and AR3 in the xenografted tumors in vivo, and SC-J9-treated tumors has significantly decreased Ki67-positive cells<sup>[1]</sup>. Dimethylcurcumin (ASC-J9) (50 mg/kg every 48 h, i.p.) substantially ameliorates the SBMA symptoms in AR-97Q mice, and ameliorates neuromuscular pathological findings. The Dimethylcurcumin (ASC-J9)-treated SBMA mice have relatively normal serum testosterone concentrations<sup>[2]</sup>. ASC-J9-treated mice show significantly smaller prostate tumor sizes when compared with those receiving classic ADT/castration with little serum androgen<sup>[3]</sup>.



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