ASC-J9

Cat. No.: A3190  
CAS No.: 52328-98-0  
Formula: C23H24O6  
M.Wt: 396.43  
Synonyms: GO-Y025; Dimethylcurcumin; ASC J9; GO Y025

Target: Endocrinology and Hormones  
Pathway: Androgen Receptor  
Storage: Store at -20°C

Solvent & Solubility

<table>
<thead>
<tr>
<th>In Vitro</th>
<th>Preparing Stock Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 mg/L</td>
<td>Mass</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.5225 mL</td>
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<tr>
<td>5 mM</td>
<td>0.5045 mL</td>
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<tr>
<td>10 mM</td>
<td>0.2523 mL</td>
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≥16.65 mg/mL in DMSO, insoluble in EtOH, insoluble in H2O

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary: AR degradation enhancer, antumor agent

IC₅₀ & Target: 5.9 μM (PC-3 cell proliferation), 3.9 μM (LNCaP cell proliferation)

Cell Viability Assay

Cell Line: Human C4-2B/human THP1 cells and mouse TRAMP-C1/mouse RAW 264.7 cells.

Preparation method: Soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions: 5 μM; 3 days.
Applications: ASC-J9 suppresses macrophage recruitment and suppresses PCa invasion.

Animal experiment

Animal models: Male 6- to 8-week-old nude mice with orthotopically xenografted 10^6 TRAMP-C1 cells.

Dosage form: 75 mg/kg; i.p. injected three times per week for 3 weeks.

Applications: In mice, ASC-J9 significantly decreases developing distant metastatic tumors in diaphragm and lymph nodes. There are little change in mice body weight among all the mice treated.

Other notes: Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

References
