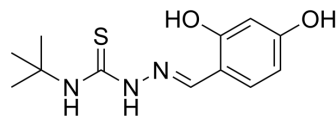


IMM-01

Cat. No.:	HY-124808
CAS No.:	218795-74-5
Molecular Formula:	C ₁₂ H ₁₇ N ₃ O ₂ S
Molecular Weight:	267.35
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	IMM-01 is a formin agonist that inhibits DID-DAD (diaphanous inhibitory domain-diaphanous autoregulatory domain) binding with an IC ₅₀ 140 nM. IMM-01 acts by disrupting the autoinhibitory bond between the DID and DAD domain and thus activates formins. IMM-01 shows anticancer effects ^[1] .								
In Vitro	<p>IMM-01 (100 μM; 1h) induces microtubule stabilization in SW480 colon carcinoma cells^[1].</p> <p>IMM-01 (10 μM) significantly induces LacZ expression in NIH 3T3-SRE-LacZ cells^[1].</p> <p>IMM-01 (1-100 μM; 48 hours) induces caspase-3 cleavage during induction of apoptosis in NIH 3T3 cells and SW480 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>NIH 3T3 cells and SW480 cells</td> </tr> <tr> <td>Concentration:</td> <td>1 μM, 10 μM, or 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Induced caspase-3 cleavage.</td> </tr> </table>	Cell Line:	NIH 3T3 cells and SW480 cells	Concentration:	1 μM, 10 μM, or 100 μM	Incubation Time:	48 hours	Result:	Induced caspase-3 cleavage.
Cell Line:	NIH 3T3 cells and SW480 cells								
Concentration:	1 μM, 10 μM, or 100 μM								
Incubation Time:	48 hours								
Result:	Induced caspase-3 cleavage.								
In Vivo	<p>IMM-01 (5-25 mg/kg; i.v.; 2 times a week; for 3 weeks) is able to slow tumor growth in a mouse xenograft model of colon cancer^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Athymic nude female mice (6 to 8 weeks) implanted with SW480 cells^[1]</td> </tr> <tr> <td>Dosage:</td> <td>5 mg/kg, 25 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.v.; 2 times a week; for 3 weeks</td> </tr> <tr> <td>Result:</td> <td>Slowed tumor growth in a dose-dependent manner when administered intravenously via the tail vein.</td> </tr> </table>	Animal Model:	Athymic nude female mice (6 to 8 weeks) implanted with SW480 cells ^[1]	Dosage:	5 mg/kg, 25 mg/kg	Administration:	i.v.; 2 times a week; for 3 weeks	Result:	Slowed tumor growth in a dose-dependent manner when administered intravenously via the tail vein.
Animal Model:	Athymic nude female mice (6 to 8 weeks) implanted with SW480 cells ^[1]								
Dosage:	5 mg/kg, 25 mg/kg								
Administration:	i.v.; 2 times a week; for 3 weeks								
Result:	Slowed tumor growth in a dose-dependent manner when administered intravenously via the tail vein.								

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA