## IMM-01

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MedChemExpress

Cat. No.:	HY-124808
CAS No.:	218795-74-5
Molecular Formula:	$C_{12}H_{17}N_3O_2S$
Molecular Weight:	267.35
Target:	Apoptosis; Ras
Pathway:	Apoptosis; GPCR/G Protein; MAPK/ERK Pathway
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7404 mL	18.7021 mL	37.4041 ml
	5 mM	0.7481 mL	3.7404 mL	7.4808 mL
	10 mM	0.3740 mL	1.8702 mL	3.7404 mL

BIOLOGICAL ACTIV				
DIOLOGICAL ACTIV				
Description	IMM-01 is a mammalian Diaphanous (mDia)-related formins agonist that inhibits DID-DAD (diaphanous inhibitory domain- diaphanous autoregulatory domain) binding with an IC <sub>50</sub> of 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 <sup>[1]</sup> .			
In Vitro	IMM-01 (10 μM) significa IMM-01 (1-100 μM; 48 hor	A-01 (100 μM; 1h) induces microtubule stabilization in SW480 colon carcinoma cells <sup>[1]</sup> . A-01 (10 μM) significantly induces LacZ expression in NIH 3T3-SRE-LacZ cells <sup>[1]</sup> . A-01 (1-100 μM; 48 hours) induces caspase-3 cleavage during induction of apoptosis in NIH 3T3 cells and SW480 cells <sup>[1]</sup> . E has not independently confirmed the accuracy of these methods. They are for reference only. Optosis Analysis <sup>[1]</sup>		
	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.		

## Product Data Sheet

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In Vivo	cancer <sup>[1]</sup> .	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	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

[1]. L Leanne Lash, et al. Small-molecule intramimics of formin autoinhibition: a new strategy to target the cytoskeletal remodeling machinery in cancer cells. Cancer Res. 2013 Nov 15;73(22):6793-803.

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

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