## Methyl jasmonate

HY-135663		
1211-29-6		
C <sub>13</sub> H <sub>20</sub> O <sub>3</sub>		
224.3		
Others		
Others		
Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	1211-29-6 $C_{13}H_{20}O_3$ 224.3 Others Others Pure form	$1211-29-6$ $C_{13}H_{20}O_3$ $224.3$ Others         Others         Pure form       -20°C $4^{\circ}C$ In solvent       -80°C

## SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	4.4583 mL	22.2916 mL	44.5831 mL	
		5 mM	0.8917 mL	4.4583 mL	8.9166 mL	
		10 mM	0.4458 mL	2.2292 mL	4.4583 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
ivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution					
	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution</li> </ol>					

<b>BIOLOGICAL ACTIV</b>	
Description	Methyl jasmonate is a phytohormone involved in plant defenses under stress conditions. Methyl jasmonate can improve antioxidant properties of blueberry leaf extracts (mainly anthocyanins), and decrease the viability and migration capacity of AGS cells. Anticarcinogenic activity <sup>[1]</sup> .
In Vitro	Methyl jasmonate-treated blueberry leaf extraction (10-3200 μg/mL; 1 hour) can decrease cell viability of AGS cells with increasing dose <sup>[1]</sup> . Methyl jasmonate-treated blueberry leaf extraction (10-3200 μg/mL) can significantly decrease the expression of p-P70S6K

## Product Data Sheet

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Cell Viability Assay	
Cell Line:	Gastric cancer cells (line AGS) <sup>[1]</sup>
Concentration:	10, 25, 50, 100, 200, 400, 800, 1600 and 3200 μg/mL
Incubation Time:	1 hour
Result:	Cell viability of AGS cells gradually decreased in response to increasing doses of blueberry leaf extract from MeJA treated plants.
Western Blot Analysis	
Cell Line:	AGS cells <sup>[1]</sup>
Concentration:	10, 50, 100, 200, 400, 800, 1600 and 3200 μg/mL
Incubation Time:	
Result:	Blueberry leaf extracts of MeJA-treated plants significantly decreased the expression of p- P70S6K (AKT/mTOR pathway) and p-ERK1/2 (MAPK) proteins.

## REFERENCES

[1]. Ribera-Fonseca A, et al. The Anti-Proliferative and Anti-Invasive Effect of Leaf Extracts of Blueberry Plants Treated with Methyl Jasmonate on Human Gastric Cancer In Vitro Is Related to Their Antioxidant Properties. Antioxidants (Basel). 2020;9(1):45. Published 2020 Jan 4.

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

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