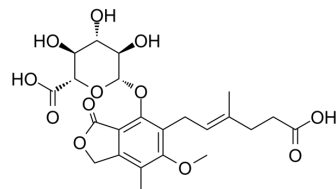


## Mycophenolic acid glucuronide

Cat. No.:	HY-137301		
CAS No.:	31528-44-6		
Molecular Formula:	C <sub>23</sub> H <sub>28</sub> O <sub>12</sub>		
Molecular Weight:	496.46		
Target:	Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (67.14 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.0143 mL	10.0713 mL	20.1426 mL
			5 mM	0.4029 mL	2.0143 mL	4.0285 mL
			10 mM	0.2014 mL	1.0071 mL	2.0143 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Mycophenolic acid glucuronide is a metabolite of the immunosuppressant mycophenolic acid (MPA). Mycophenolic acid glucuronide shows anti-tumor activity and can be used in adenocarcinoma research <sup>[1][2][3]</sup> .
In Vitro	Mycophenolic acid glucuronide shows weak IMP dehydrogenase (IMPDH) type II inhibition with an IC <sub>50</sub> of 3.3 mg/L <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Mycophenolic acid glucuronide (intraperitoneal injection; 6 mg/mouse; once two days; 6 d) treatment reduces tumor growth in an Ehrlich murine spontaneous adenocarcinoma model <sup>[2]</sup> .

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Animal Model:	Swiss albino strain mouse implanted with Ehrlich ascites tumor cells <sup>[2]</sup>
Dosage:	6 mg/mouse
Administration:	Intraperitoneal injection; 6 mg/mouse; once two days; 6 d
Result:	Showed 76.8% tumor inhibition compared to the untreated control.

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## REFERENCES

[1]. Ando K, et al. Synthesis of mycophenolic acid beta-D-glucuronide and its antitumor activity. J Antibiot (Tokyo). 1970 Aug;23(8):408-13.

[2]. Natascha A Wolff, et al. Mycophenolic acid (MPA) and its glucuronide metabolites interact with transport systems responsible for excretion of organic anions in the basolateral membrane of the human kidney. Nephrol Dial Transplant. 2007 Sep;22(9):2497-503.

[3]. Gensburger O, et al. Effect of mycophenolate acyl-glucuronide on human recombinant type 2 inosine monophosphate dehydrogenase. Clin Chem. 2009 May;55(5):986-93.

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

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