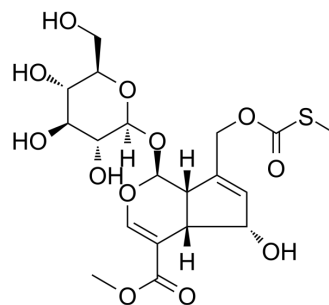


## Paederosidic acid methyl ester

<b>Cat. No.:</b>	HY-N2433
<b>CAS No.:</b>	122413-01-8
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>26</sub> O <sub>12</sub> S
<b>Molecular Weight:</b>	478.47
<b>Target:</b>	Potassium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (209.00 mM)  
\* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0900 mL	10.4500 mL	20.9000 mL
	5 mM	0.4180 mL	2.0900 mL	4.1800 mL
	10 mM	0.2090 mL	1.0450 mL	2.0900 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (5.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (5.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (5.22 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Paederosidic acid methyl ester is a ATP-sensitive K<sup>+</sup> channel activator, isolated from *P. scandens*. Paederosidic acid methyl ester exhibits significant central analgesic activity, and enhances the threshold of pain by activating ATP-sensitive K<sup>+</sup> channel in the brain and spinal cord level<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: K<sup>+</sup> channel<sup>[1]</sup>

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## REFERENCES

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[1]. Chen YF, et al. Possible mechanism involved in the antinociceptive activity of dimer of paederosidic acid and paederosidic acid methyl ester in mice. *CNS Neurosci Ther.* 2014 Feb;20(2):188-90.

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

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