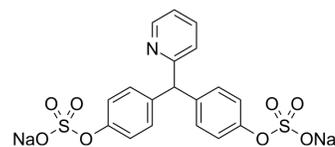


Sodium Picosulfate

Cat. No.:	HY-B0544
CAS No.:	10040-45-6
Molecular Formula:	C ₁₈ H ₁₃ NNa ₂ O ₈ S ₂
Molecular Weight:	481.41
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (207.72 mM; Need ultrasonic)
 H₂O : ≥ 100 mg/mL (207.72 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.0772 mL	10.3862 mL	20.7723 mL
	5 mM	0.4154 mL	2.0772 mL	4.1545 mL	
	10 mM	0.2077 mL	1.0386 mL	2.0772 mL	

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (207.72 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.19 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sodium Picosulfate (Sodium Picosulphate) is a contact irritant laxative with oral activity. Sodium Picosulfate inhibits the absorption of water and electrolytes, increasing their production. Sodium Picosulfate can be used in colonoscopy applications^{[1][2][3][4]}.

In Vitro

Sodium Picosulfate (400, 800, 1600 µg/mL) has different toxicity to rabbit, rat and human hepatocytes, and rat hepatocytes

	are the best tolerated ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Sodium Picosulfate (10 mg/kg, dissolved in 0.3% tragacanth in water, intragastric administration) has no significant effect on the proliferation of epithelial cells in the ileum and colon of rats ^[2] . Sodium Picosulfate (2.5, 10 mg/kg/day, dissolved in 0.5% tragacanth gum, intragastric administration) does not cause chronic changes in colon movement in rats ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Nishikawa J, et al. Toxicity study with sodium picosulfate in cultured liver cells of rabbit, rat and man. *Arzneimittelforschung*. 1981;31(2):321-5.
- [2]. Geboes K, et al. Effects of 'contact laxatives' on intestinal and colonic epithelial cell proliferation. *Pharmacology*. 1993 Oct;47 Suppl 1:187-95.
- [3]. Fioramonti J, et al. In vivo motility of rat colon chronically pretreated with sennosides. *Pharmacology*. 1993 Oct;47 Suppl 1:155-61.
- [4]. Regev A, et al. Comparison of two bowel preparations for colonoscopy: sodium picosulphate with magnesium citrate versus sulphate-free polyethylene glycol lavage solution. *Am J Gastroenterol*. 1998 Sep;93(9):1478-82.
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Caution: Product has not been fully validated for medical applications. For research use only.

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