

Product Data Sheet

Product Name: Sodium Picosulfate

Cat. No.: GC16452

Chemical Properties

Cas. No. 10040-45-6

Chemical Name disodium;[4-[pyridin-2-yl-(4-sulfonatooxyphenyl)methyl]phenyl] sulfate

SMILES C1=CC=NC(=C1)C(C2=CC=C(C=C2)OS(=O)(=O)[O-])C3=CC=C(C=C3)OS(=O)(=O)[O-].[Na+].[Na+]

Formula $C_{18}H_{15}NO_8S_2 \cdot 2Na$

M.Wt 481.41

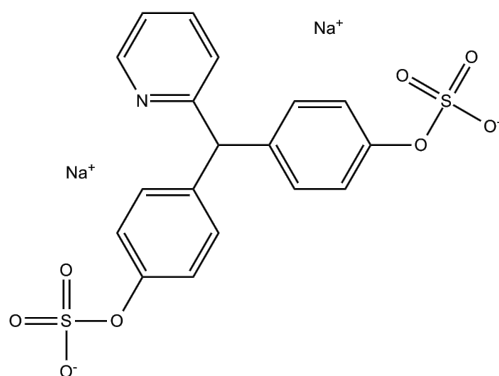
Solubility $\geq 13.05\text{mg/mL}$ in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Sodium Picosulfate is a laxative.

Sodium Picosulfate is a laxative that inhibits water and electrolytes absorption and increases their secretion. In cultured human, rat and rabbit liver cells, sodium picosulfate ($1600\text{ }\mu\text{g/mL}$) reduced the protein content in rabbit liver cells. Also, hepatocytes of rabbit were more sensitive to sodium picosulfate [1].

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

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In patients underwent a barium enema, sodium picosulphate reduced the serum concentrations of sodium, potassium and urea by 1.299, 0.163 and 0.556, respectively [2]. In patients with morphine sulphate induced constipation, sodium picosulfate was well-tolerated and significantly improved constipation with normal stool consistency, not requiring suppositories, manual evacuation or enemas [3]. In patients with chronic constipation, sodium picosulphate (7 mg) improved stool frequency and straining in 82.8% patients and reduced bloating [4].

References:

- [1]. Nishikawa J, Kast A. Effects of sodium picosulfate, bisacodyl and sennoside in cultured human, rat and rabbit liver cells. *Arzneimittelforschung*, 1981, 31(6): 1010-1013.
- [2]. Ryan F, Anobile T, Scutt D, et al. Effects of oral sodium picosulphate Picolax on urea and electrolytes. *Nurs Stand*, 2005, 19(45): 41-45.
- [3]. Twycross RG, McNamara P, Schuijt C, et al. Sodium picosulfate in opioid-induced constipation: results of an open-label, prospective, dose-ranging study. *Palliat Med*, 2006, 20(4): 419-423.
- [4]. Wulkow R, Vix JM, Schuijt C, et al. Randomised, placebo-controlled, double-blind study to investigate the efficacy and safety of the acute use of sodium picosulphate in patients with chronic constipation. *Int J Clin Pract*, 2007, 61(6): 944-950.

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