

Hydrocortisone phosphate sodium

Chemical Properties

CAS No. :	6000-74-4
Formula:	C ₂₁ H ₂₉ Na ₂ O ₈ P
Molecular Weight:	486.40
Storage:	Keep away from moisture, Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Hydrocortisone phosphate sodium belongs to the category of soft glucocorticoids. It exhibits relatively weak anti-inflammatory effects and has a short retention time in vivo, making it suitable for research on various ocular diseases and gastric ulcers.
Targets(IC50)	Phosphatase
In vivo	<p>Method: Chronic gastric ulcers were induced in male Wistar rats by applying 100% acetic acid to the gastric serosa. Postoperatively, the rats received daily intraperitoneal injections of Hydrocortisone sodium phosphate (2.5 mg/kg) for 2 consecutive weeks. The animals were sacrificed on day 14, and the ulcer area was measured.</p> <p>Result: Chronic administration of Hydrocortisone sodium phosphate significantly delayed the healing of acetic acid-induced gastric ulcers, as evidenced by a marked increase in ulcer area compared with the control group that did not receive the drug [1].</p> <p>Method: Rats with acetic acid-induced chronic gastric ulcers were given daily intraperitoneal injections of Hydrocortisone sodium phosphate (2.5 mg/kg). On day 7, gastric tissues were collected and subjected to hematoxylin-eosin (HE) and Azan-Mallory staining for histological evaluation.</p> <p>Result: In the Hydrocortisone sodium phosphate-treated group, persistent necrotic debris was still observed at the ulcer site on day 7, along with poor granulation tissue formation, reduced regeneration at the mucosal margins, and a thinner ulcer base compared with controls [1].</p>

Solubility Information

Solubility	H ₂ O: 56 mg/mL (115.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0559 mL	10.2796 mL	20.5592 mL
5 mM	0.4112 mL	2.0559 mL	4.1118 mL
10 mM	0.2056 mL	1.028 mL	2.0559 mL
50 mM	0.0411 mL	0.2056 mL	0.4112 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kuwayama H, et al. Effects of sucralfate, lansoprazole, and cimetidine on the delayed healing by hydrocortisone sodium phosphate of chronic gastric ulcers in the rat. *Am J Med.* 1991;91(2A):155-195.

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