

Product Data Sheet

Product Name: PCL 016

Cat. No.: GC32372

Chemical Properties

Cas. No. 98-98-6

SMILES O=C(O)C1=CC=CC=N1

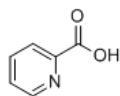
Formula C6H5NO2 M.Wt 123.11

Solubility DMSO : ≥ 100 mg/mL (812.28 mM); Water : ≥ 50 mg/mL (406.14 mM) 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



Protocol

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

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Animal experiment: Rabbits[1] 25 NZW rabbits are topically inoculated in both eyes, following corneal scarification, with 1.5×10^6 pfu/eye of Ad5. On day 1, the rabbits are divided into 6 topical treatment groups: I - 1.5% PCL 016 pH 7.0 (n=4); II - 0.8% PCL 016 pH 7.0 (n=4); III - 0.369% PCL 016 pH 7.0 (n=4); IV - 0.369% PCL 016 pH 4.0 (n=4); V - 0.5% Cidofovir (CDV) (n=4); VI - Control (saline) (n=5). PCL 016 and control rabbits are treated in both eyes 4 times daily for 7 days, while CDV rabbits are treated in both eyes twice daily for 7 days. All eyes are cultured for virus on days 0, 1, 3, 4, 5, 7, 9, 11, and 14[1].

References:

[1]. E.G. Romanowski, et al. A Novel Topical Antiviral Agent, PCL-016 (Picolinic Acid), Inhibits Adenovirus Replication in the Ad5/NZW Rabbit Ocular Model. ARVO Annual Meeting Abstract. May 2005 Volume 46, Issue 13.

Background

PCL 016 is a topical antiviral agent, which inhibits adenovirus replication in rabbit.

Topical 1.5% PCL, 0.8% PCL, 0.369% PCL (pH7), 0.369% PCL (pH4) and 0.5% CDV are significantly more effective than the Control in reducing Ad Positive Cultures/Total (Days 1-14) and the Duration of Ad Shedding in the Ad5/NZW rabbit ocular model. Although not statistically significant, there appears to be a trend toward concentration-dependent efficacy of PCL 016 on the Duration of Ad Shedding. There is no apparent ocular toxicity associated with PCL 016 concentrations[1].

[1]. E.G. Romanowski, et al. A Novel Topical Antiviral Agent, PCL-016 (Picolinic Acid), Inhibits Adenovirus Replication in the Ad5/NZW Rabbit Ocular Model. ARVO Annual Meeting Abstract. May 2005 Volume 46, Issue 13.

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