

Data Sheet (Cat.No.Fr14438)



p-Toluic Acid

Chemical Properties

CAS No.: 99-94-5 Formula: C8H8O2 Molecular Weight: 136.15

Appearance: White to slightly yellow-cream Powder

Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

| Description | p-Toluic Acid belongs to the class of organic compounds known as benzoic acids. 4-Methylbenzoic acid has been primarily detected in saliva. Within the cell, 4-methylbenzoic acid is primarily located in the cytoplasm. | | |
|----------------------------|--|--|--|
| Targets(IC ₅₀) | Others: None | | |
| In vivo | Daily administration of 4-methylbenzoic acid in male and female Sprague-Dawley rats. 1,000 mg/kg/day of the compound reduced epididymal weights and increased incidence of cauda epididymal oligo/azoospermia. While the compound did not affect estrous cycle or mating performances, 1,000 mg/kg of the compound reduced fertility. Furthermore, 300 mg/kg or more of the compound increased pre-implantation loss, which resulted in a decrease in the number of offspring, and reduced body weight gain of the dams during the latter period of gestation. | | |

Solubility Information

| Solubility | DMSO: 10 mM | |
|------------|---|--|
| | (< 1 mg/ml refers to the product slightly soluble or insoluble) | |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 7.345 mL | 36.724 mL | 73.448 mL |
| 5 mM | 1.469 mL | 7.345 mL | 14.69 mL |
| 10 mM | 0.734 mL | 3.672 mL | 7.345 mL |
| 50 mM | 0.147 mL | 0.734 mL | 1.469 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Shirota M , Seki T , Tago K , et al. Screening of toxicological properties of 4-methylbenzoic acid by oral administration to rats.[J]. Journal of Toxicological ences, 2008, 33(4):431-445.

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