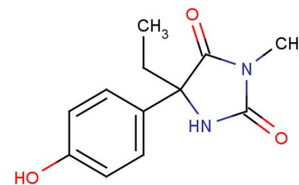


4-Hydroxymephenytoin

Chemical Properties

CAS No.:	61837-65-8
Formula:	C ₁₂ H ₁₄ N ₂ O ₃
Molecular Weight:	234.26
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	4-Hydroxymephenytoin is the metabolism of an antiepileptic drug mephenytoin. Mephenytoin is used as a CYP2C19 substrate.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.269 mL	21.344 mL	42.688 mL
5 mM	0.854 mL	4.269 mL	8.538 mL
10 mM	0.427 mL	2.134 mL	4.269 mL
50 mM	0.085 mL	0.427 mL	0.854 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. Tanaka M, et al. Simple and selective assay of 4-hydroxymephenytoin in human urine using solid-phase extraction and high-performance liquid chromatography with electrochemical detection and its preliminary application to phenotyping test. J Chromatogr B Biomed Appl. 1996 Feb 9;676(1):87-94.
2. Stewart NA, et al. A UPLC-MS/MS assay of the "Pittsburgh cocktail": six CYP probe-drug/metabolites from human plasma and urine using stable isotope dilution. Analyst. 2011 Feb 7;136(3):605-12.

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