



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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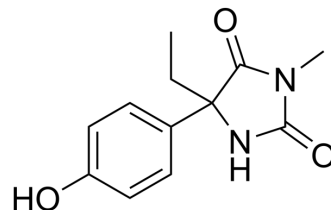
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## 4-Hydroxymephenytoin

Cat. No.:	HY-W008772
CAS No.:	61837-65-8
Molecular Formula:	C <sub>12</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	234.25
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 1 year; -20°C, 6 months (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (426.89 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	4.2689 mL	21.3447 mL	42.6894 mL
				5 mM	0.8538 mL	4.2689 mL	8.5379 mL
				10 mM	0.4269 mL	2.1345 mL	4.2689 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.67 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.67 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.67 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	4-Hydroxymephenytoin is a metabolism of an antiepileptic agent mephenytoin, which is used as a CYP2C19 substrate.
In Vitro	4-Hydroxymephenytoin is a metabolism of mephenytoin, which is an antiepileptic drug, and used as a CYP2C19 substrate <sup>[1]</sup> . 4-Hydroxymephenytoin (4'-Hydroxymephenytoin) is used for developing UltraPerformance LC (UPLC) tandem mass spectrometry assays for evaluating CYP probe drugs and their relevant metabolites in human urine or plasma samples <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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