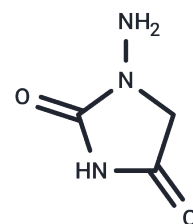


1-Aminohydantoin hydrochloride

Chemical Properties

CAS No. :	2827-56-7
Formula:	C ₃ H ₆ ClN ₃ O ₂
Molecular Weight:	151.55
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>

HCl



Biological Description

Description	1-Aminohydantoin hydrochloride is a significant metabolite of furantoin in animal tissues. It binds covalently to tissue proteins, is released under slightly acidic conditions, and can be detected by derivatization with 2-nitrobenzaldehyde forming a nitrophenyl derivative of AHD. It is used in assays to determine veterinary drug residues in meat and milk.
Targets(IC50)	Others, Drug Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (362.92 mM), Sonication is recommended. H ₂ O: Limited solubility, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (13.2 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.5985 mL	32.9924 mL	65.9848 mL
5 mM	1.3197 mL	6.5985 mL	13.197 mL
10 mM	0.6598 mL	3.2992 mL	6.5985 mL
50 mM	0.132 mL	0.6598 mL	1.3197 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

Liu W, et al. J Agric Food Chem. 2007 Aug 22;55(17):6829-34.

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