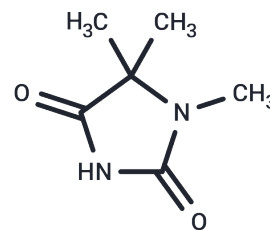


1,5,5-Trimethylhydantoin

Chemical Properties

CAS No. :	6851-81-6
Formula:	C ₆ H ₁₀ N ₂ O ₂
Molecular Weight:	142.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	1,5,5-Trimethylhydantoin (TMH) serves as a non-isotopic internal standard (IS).
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 90 mg/mL (633.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (23.21 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	7.0343 mL	35.1716 mL	70.3433 mL
5 mM	1.4069 mL	7.0343 mL	14.0687 mL
10 mM	0.7034 mL	3.5172 mL	7.0343 mL
50 mM	0.1407 mL	0.7034 mL	1.4069 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

Zi-Ao Huang, et al. Application of multisegment injection on quantification of creatinine and standard addition analysis of urinary 5-hydroxyindoleacetic acid simultaneously with creatinine normalization. Electrophoresis. 2020 Feb;41(3-4):183-193.

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