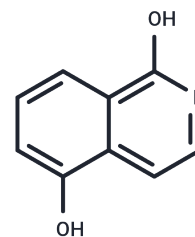


1,5-Isoquinolinediol

Chemical Properties

CAS No. :	5154-02-9
Formula:	C ₉ H ₇ NO ₂
Molecular Weight:	161.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	1, 5-Isoquinolinediol is an inhibitor of poly(ADP-ribose) synthetase (PARP1; IC ₅₀ : 0.39 μM). The poly(ADP-ribose) polymerases (PARPs) form a family of enzymes with roles in DNA repair and apoptosis. 1, 5-Isoquinolinediol has been used to study the role of PARP1 in both DNA repair and oxidant stress-induced cell death. This compound can be used with cells in culture and in animals.
Targets(IC ₅₀)	PARP

Solubility Information

Solubility	H ₂ O: 1 mg/mL (6.21 mM),Sonication is recommended. Ethanol: 20 mg/mL (124.1 mM),Sonication is recommended. DMSO: 55 mg/mL (341.28 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: 2 mg/mL (12.41 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	6.205 mL	31.0251 mL	62.0501 mL
5 mM	1.241 mL	6.205 mL	12.410 mL
10 mM	0.6205 mL	3.1025 mL	6.205 mL
50 mM	0.1241 mL	0.6205 mL	1.241 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

- Davar D, et al. Role of PARP inhibitors in cancer biology and therapy.[J]. Current Medicinal Chemistry, 2012, 19(23).
Banasik M, et al. Specific inhibitors of poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferase[J]. Journal of Biological Chemistry, 1992, 267(3):1569-1575.
Ruscetti T, et al. Stimulation of the DNA-dependent Protein Kinase by Poly(ADP-Ribose) Polymerase[J]. Journal of Biological Chemistry, 1998, 273(23):14461-14467.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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