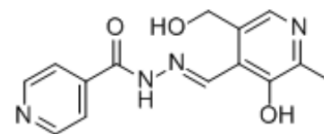


Pyridoxal isonicotinoyl hydrazone

Cat. No.:	HY-114758
CAS No.:	737-86-0
Molecular Formula:	C ₁₄ H ₁₄ N ₄ O ₃
Molecular Weight:	286.29
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 14.71 mg/mL (51.38 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.4930 mL	17.4648 mL	34.9296 mL
	5 mM	0.6986 mL	3.4930 mL	6.9859 mL
	10 mM	0.3493 mL	1.7465 mL	3.4930 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: ≥ 1.47 mg/mL (5.13 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.47 mg/mL (5.13 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 1.47 mg/mL (5.13 mM); Suspended solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	Pyridoxal isonicotinoyl hydrazone (PIH) is a lipophilic, tridentate Fe-chelating agent that shows high Fe chelation efficacy ^[1] .
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REFERENCES

[1]. Hermes-Lima M, et al. The iron chelator pyridoxal isonicotinoyl hydrazone (PIH) and its analogues prevent damage to 2-deoxyribose mediated by ferric iron plus ascorbate. *Biochim Biophys Acta*. 2000 Oct 18;1523(2-3):154-60.

[2]. Landschulz W, et al. A lipophilic iron chelator can replace transferrin as a stimulator of cell proliferation and differentiation. J Cell Biol. 1984 Feb;98(2):596-601.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA