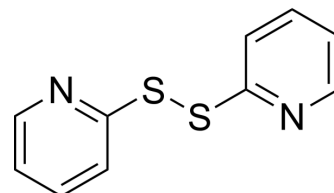


2,2'-Dipyridyl disulfide

Cat. No.:	HY-Y1666		
CAS No.:	2127-03-9		
Molecular Formula:	C ₁₀ H ₈ N ₂ S ₂		
Molecular Weight:	220.31		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (453.91 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.5391 mL	22.6953 mL	45.3906 mL
		5 mM	0.9078 mL	4.5391 mL	9.0781 mL
10 mM		0.4539 mL	2.2695 mL	4.5391 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	2,2'-Dipyridyl disulfide is a useful reagent for the determination of sulfhydryl groups. 2,2'-Dipyridyl disulfide is a common reagent in peptide chemistry, often used in oxidation–reduction condensations to form peptide bonds or in coupling reactions to form disulfide-linked heterodimers ^[1] .
In Vitro	Formation of intramolecular S–S bonds can be dramatically accelerated by addition of a 2,2'-Dipyridyl disulfide (2-PDS) solution to an air-oxidized mixture of cysteine-containing peptides ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. K Maruyama, et al. 2,2'-Bispyridyl disulfide rapidly induces intramolecular disulfide bonds in peptides. *Peptides*. 1999;20(7):881-4.

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