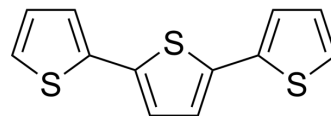


2,2':5',2''-Terthiophene

Cat. No.:	HY-N2048
CAS No.:	1081-34-1
Molecular Formula:	C ₁₂ H ₈ S ₃
Molecular Weight:	248.39
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (402.59 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.0259 mL	20.1296 mL	40.2593 mL
	5 mM	0.8052 mL	4.0259 mL	8.0519 mL
	10 mM	0.4026 mL	2.0130 mL	4.0259 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

2,2':5',2''-Terthiophene (α -Terthiophene) is an oligomer of the heterocycle thiophene. 2,2':5',2''-Terthiophene has been employed as building block for the organic semi-conductor polythiophene.

In Vitro

In the most common isomer of Terthiophene, two thienyl groups are connected via their 2 positions to a central thiophene, also at the carbon atoms flanking the sulfur.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Casado J, et al. Alternated quinoid/aromatic units in terthiophenes building blocks for electroactive narrow band gap polymers. Extended spectroscopic, solid state, electrochemical, and theoretical study. J Phys Chem B. 2005 Sep 8;109(35):16616-27.

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

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