1,4,7-Triazonane

Cat. No.: HY-W006212

CAS No.: 4730-54-5

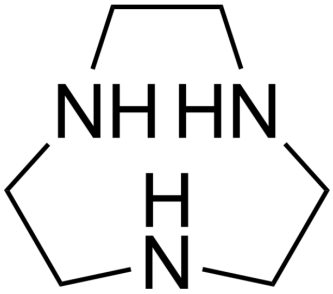
Molecular Formula: $C_6H_{15}N_3$

Molecular Weight: 129.2

Target: Biochemical Assay Reagents

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 : 100 mg/mL (773.99 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	7.7399 mL	38.6997 mL	77.3994 mL
	5 mM	1.5480 mL	7.7399 mL	15.4799 mL
	10 mM	0.7740 mL	3.8700 mL	7.7399 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: ≥ 2.5 mg/mL (19.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (19.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (19.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1,4,7-Triazonane (1,4,7-Triazacyclononane), an intermediate in the synthesis of 1,4,7-trifunctionalized derivatives, is a possible reagent for complexiметric titrations with high cation-binding selectivity[1][2].

In Vitro

1,4,7-Triazonane is an intermediate in the synthesis of 1,4,7-trifunctionalized derivatives that have applications in metal complexation[2].

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

REFERENCES

[1]. Nonat A, et, al. Structural and photophysical studies of highly stable lanthanide complexes of tripodal 8-hydroxyquinolinate ligands based on 1,4,7-triazacyclononane. Inorg Chem. 2009 May 4;48(9):4207-18.

[2]. Guo JF, et, al. trans-[Os(III)(salen)(CN)(2)](-): a new paramagnetic building block for the construction of molecule-based magnetic materials. Inorg Chem. 2010 Feb 15;49(4):1607-14.

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