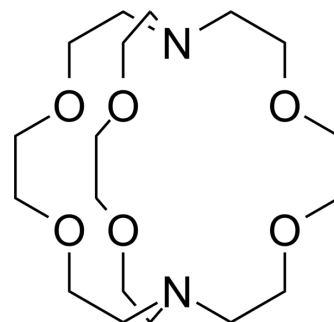


Cryptand 2.2.2

Cat. No.:	HY-W011060		
CAS No.:	23978-09-8		
Molecular Formula:	C ₁₈ H ₃₆ N ₂ O ₆		
Molecular Weight:	376.49		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Cryptand 2.2.2 is a metal ion chelator that can be used as a reducing agent and stabilizer to prepare nanoparticles. At room temperature, Cryptand 2.2.2 can serve as a host molecule, using the chelation effect to selectively bind desired ions (such as Zn²⁺, Co²⁺, Ni²⁺, Cu²⁺)^{[1][2]}.

REFERENCES

- [1]. Lee KY, et al. One-step synthesis of gold nanoparticles using azacryptand and their applications in SERS and catalysis. *J Colloid Interface Sci.* 2007 Dec 15;316(2):476-81.
- [2]. Isaeva V A, et al. Quantum-Chemical Calculations and Stability Analysis of Copper (II) Complexes with Cryptand [2.2. 2][J]. *Russian Journal of Inorganic Chemistry*, 2021, 66: 1696-1702.

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

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