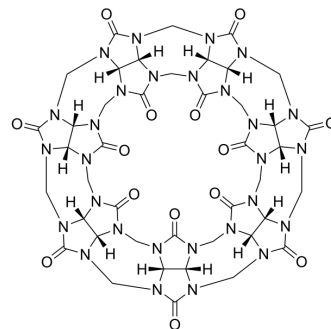


Cucurbit[7]uril

| | |
|---------------------------|--|
| Cat. No.: | HY-104086 |
| CAS No.: | 259886-50-5 |
| Molecular Formula: | C ₄₂ H ₄₂ N ₂₈ O ₁₄ |
| Molecular Weight: | 1162.96 |
| Target: | Biochemical Assay Reagents |
| Pathway: | Others |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (42.99 mM; Need ultrasonic)

| Concentration | Solvent | Mass | | |
|---------------------------|---------|-----------|-----------|-----------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 0.8599 mL | 4.2994 mL | 8.5987 mL |
| | 5 mM | 0.1720 mL | 0.8599 mL | 1.7197 mL |
| | 10 mM | 0.0860 mL | 0.4299 mL | 0.8599 mL |

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

BIOLOGICAL ACTIVITY

Description

Cucurbit[7]uril is a cyclic organic molecule consisting of seven glycoluril units linked by methylene bridges. It has a rigid barrel-like structure with two identical inlets at both ends to selectively encapsulate guest molecules of appropriate size, shape, and polarity. Cucurbit[7]uril is known for its high binding affinity for a variety of organic and inorganic guests, including drugs, amino acids, peptides, and metal ions. This property makes them promising candidates for various applications in areas such as drug delivery, catalysis, and sensing.

In Vitro

Cucurbit[7]uril is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

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

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