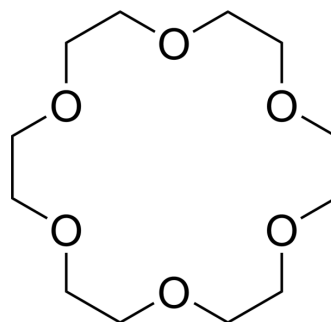


18-Crown-6-ether

Cat. No.:	HY-D0180
CAS No.:	17455-13-9
Molecular Formula:	C ₁₂ H ₂₄ O ₆
Molecular Weight:	264.32
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)



BIOLOGICAL ACTIVITY

Description

18-Crown-6-ether (18C6; 1,4,7,10,13,16-Hexaoxacyclooctadecane) is an organic compound that can be used to prepare stable microcapsule responsive layers for further assembly into bilayer microcapsules. For example, 18-Crown-6-ether is used to prepare the response layer and is coated with a G-quadruplex cross-linked hydrogel layer stabilized by K⁺; when Mg²⁺ ions are present, 18-Crown-6-ether and K⁺ ions can respectively Dissociates and locks with the G-quadruplex cross-linked layer, thereby achieving switchable controlled release of the load^[1].

REFERENCES

[1]. Lilienthal S, et al. Single and Bilayer Polyacrylamide Hydrogel-Based Microcapsules for the Triggered Release of Loads, Logic Gate Operations, and Intercommunication between Microcapsules. ACS Appl Mater Interfaces. 2020 Jul 15;12(28):31124-31136.

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

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