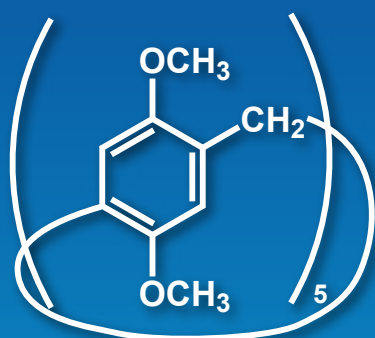


# Symmetrical Pillar-shaped Macrocyclic Pillar[5]arene

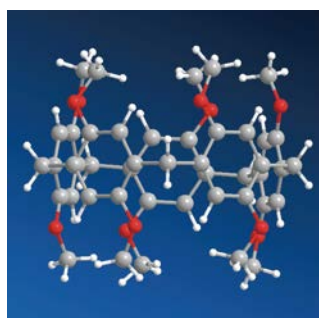


Dimethoxypillar[5]arene  
[D4471]

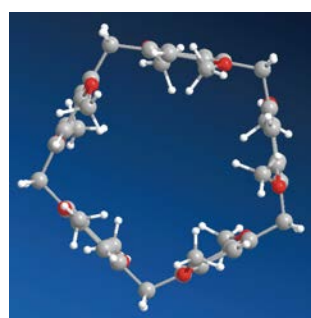
## Advantages

- A symmetric pillar structure differing from basket-shaped calixarenes
- Capture electron-accepting molecules and linear n-alkanes selectively because the internal cavity (diameter ca. 0.5 nm)

## Crystal Structure



(a) Side View



(b) Upper View

The applications to host-guest chemistry and supramolecular materials such as rotaxanes are now in progress.

References T. Ogoshi, S. Kanai, S. Fujinami, T. Yamagishi, Y. Nakamoto, *J. Am. Chem. Soc.* **2008**, *130*, 5022.  
T. Ogoshi, *J. Incl. Phenom. Macrocycl. Chem.* **2012**, *72*, 247.  
T. Ogoshi, T. Yamagishi, *Bull. Chem. Soc. Jpn.* **2013**, *86*, 312.

## Dimethoxypillar[5]arene

100mg [D4471]

This product is commercialized under instruction by Professor Tomoki Ogoshi, Kanazawa University.

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).



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