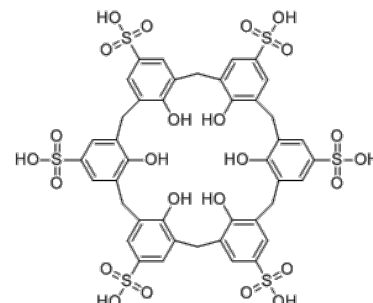


**Product Name** : 4-Sulfocalix[6]arene hydrate  
**Cat. No.** : PC-49331  
**CAS No.** : 102088-39-1  
**Molecular Formula** : C<sub>42</sub>H<sub>36</sub>O<sub>24</sub>S<sub>6</sub>  
**Molecular Weight** : 1117.1  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO  
1. Jack P Green, et al. *iScience*. 2023 Apr 27;26(5):106758.



## Biological Activity

4-Sulfonic calix[6]arene is a potent **AIM2** inflammasome inhibitor that work by binding competitively to the DNA binding site, dose dependently inhibits AIM2-dependent cell death and IL-1 $\beta$  release.

4-Sulfonic calix[6]arene shows IC<sub>50</sub> of 2.2 and 3.0  $\mu$ M for poly dA:dT-induced cell death and IL-1 $\beta$  release respectively.

4-Sulfonic calix[6]arene is effective at blocking dsDNA-induced inflammasome activation in LPS-primed human blood monocyte-derived macrophages (hMDMs).

4-Sulfonic calix[6]arene caused a dose-dependent inhibition in poly dA:dT-induced IFN- $\beta$  release from murine BMDMs with IC<sub>50</sub> of 10.72  $\mu$ M, also reduced the phosphorylation of TBK1 and IRF-3 to a similar extent as the STING inhibitor H151.

## References

