

Antitumor activity of lower rim amino derivatives of thiocalixarene

Agarkov A.S., Safiullin D.I., Sapunova A.S., Voloshina A.D., Gubaidullin A.T., Muravev A.A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2020 Author(s). Dependence of cytotoxicity of lower-rim substituted aminoalkoxythiocalix[4]arenes towards normal and tumor cell lines on the distance from receptor amino group to the macrocyclic scaffold, as well as the oxidation state of nitrogen atom has been determined.

<http://dx.doi.org/10.1063/5.0018244>

References

- [1] Calixarenes and Beyond, edited by P. Neri, J. L. Sessler and M.-X. Wang (Springer, New York, 2016).
- [2] S. E. Solovieva, V.A. Burilov and I. S. Antipin, Macroheterocycles, 10, 134-146 (2017). 10.6060/mhc170512a
- [3] A. Ovsyannikov, S. Solovieva, I. Antipin and S. Ferlay, Coord. Chem. Rev. 352, 151-186 (2017). 10.1016/j.ccr.2017.09.004
- [4] A.P. Luk'yanenko, E.A. Alekseeva, S.S. Basok, A.V. Mazepa and A.I. Gren, Rus. J. Gen. Chem., 47, 529-531 (2011).
- [5] R.V. Nosov and I.I. Stoikov, Rus. J. Gen. Chem., 88, 1844-1850 (2018).
- [6] Purification of Laboratory Chemicals, Ed. W. L. F. Armarego, C. L. L. Chai (Elsevier, New York, 2009).