

## Supplementary section

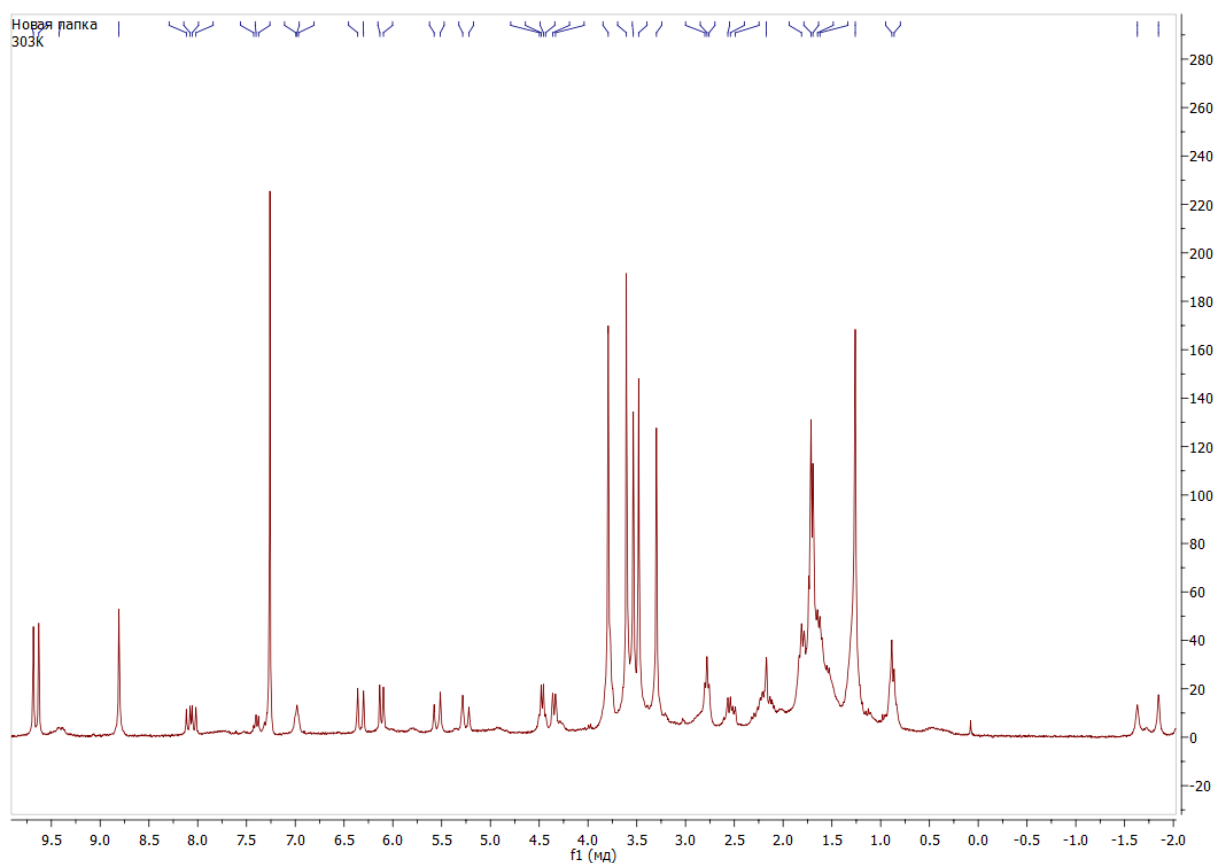
### Guanidine and Biguanidine Derivatives of Natural Chlorins: Synthesis and biological assessment

Petr V. Ostroverkhov,<sup>a@</sup> Nikita S. Kirin,<sup>a</sup> Sergey I. Tikhonov,<sup>a</sup> Maxim N. Usachev,<sup>a</sup> Olga B. Abramova,<sup>b</sup> Mikhail A. Kaplan,<sup>b</sup> Andrey F. Mironov<sup>a</sup> and Mikhail A. Grin<sup>a</sup>

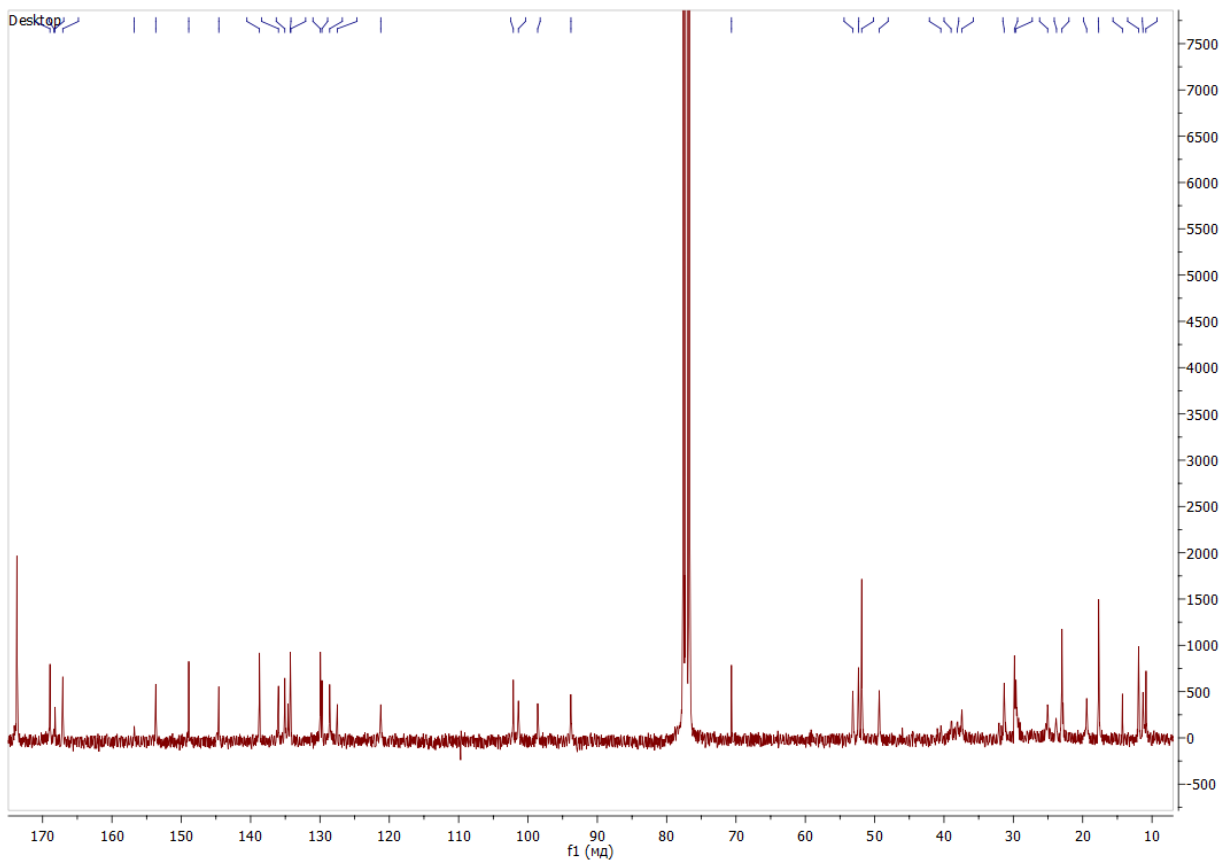
<sup>a</sup> MIREA - Russian Technological University (M.V. Lomonosov Institute of Fine Chemical Technologies), Moscow, 119571, Russia

<sup>b</sup> A. Tsyb Medical Radiological Research Center – branch of the National Medical Research Radiological Center of the Ministry of Health of the Russian Federation (A. Tsyb MRRC), Obninsk, Kaluga region, 249031, Russia

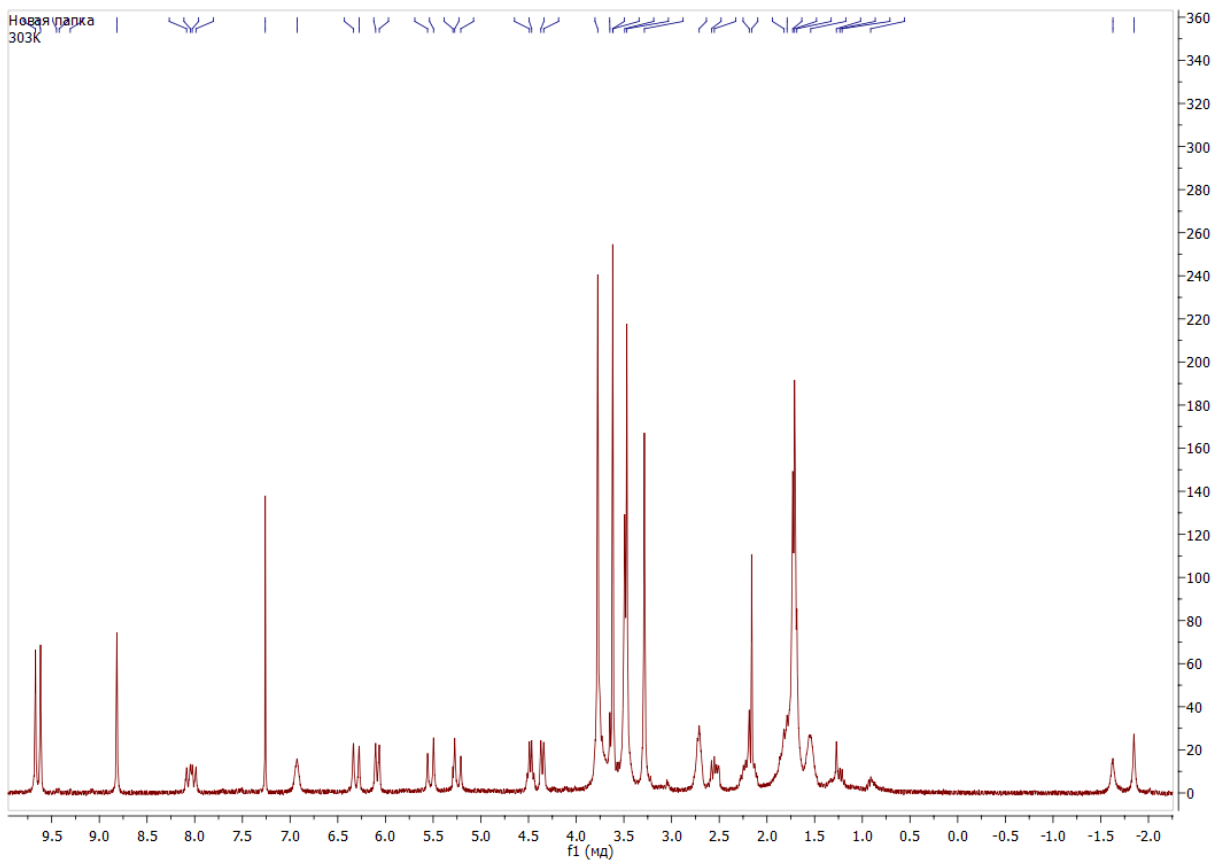
@Corresponding author E-mail: [ostroverhov@mirea.ru](mailto:ostroverhov@mirea.ru)



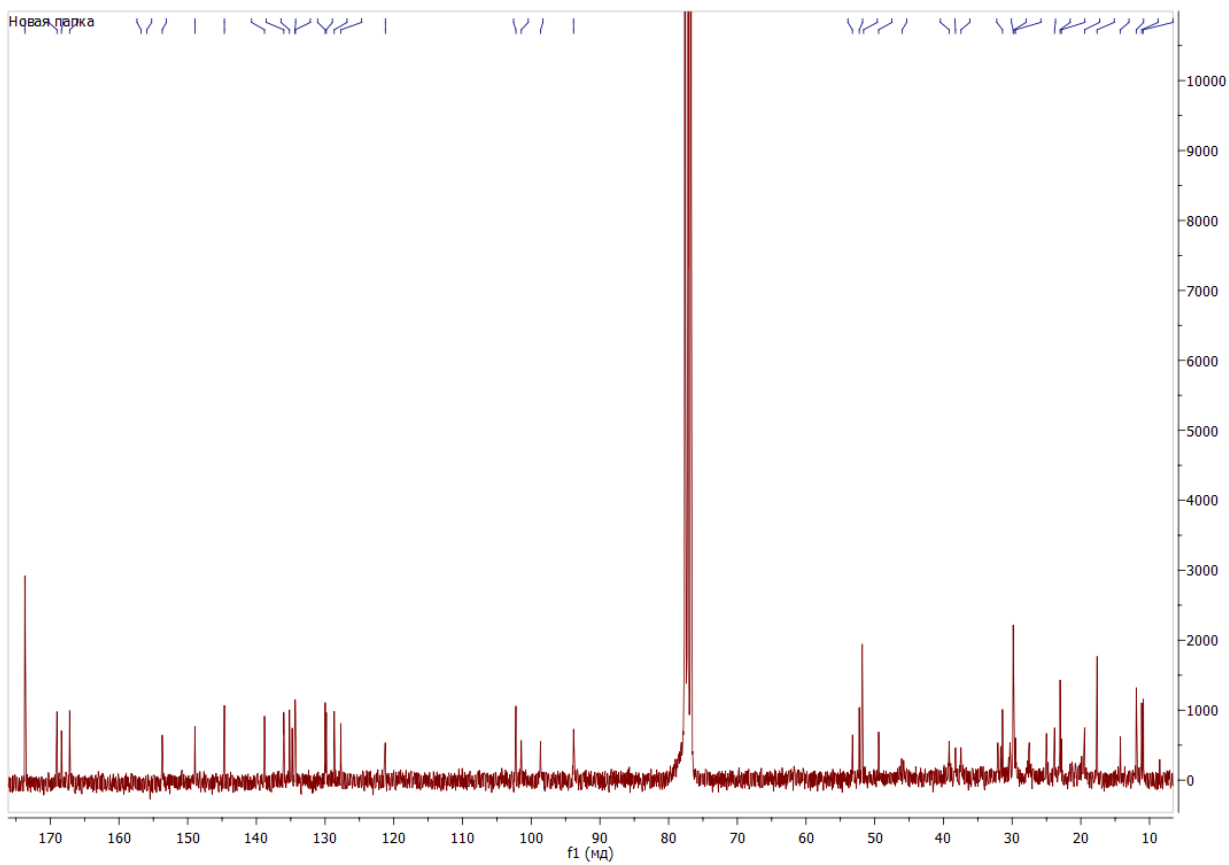
S-Figure 1 <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of 13<sup>2</sup>-(5-guanidylbutylmido)-chlorin e<sub>6</sub> 2



S-Figure 2  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of  $^{13}\text{C}$ -(5-guanidylbutylmido)-chlorin  $e_6$  **2**



S-Figure 3  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of  $^{132}$ -(5-biguanidylbutylmido)-chlorin e<sub>6</sub> 5



S-Figure 4  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of  $^{132}$ -(5-biguanidylbutylmido)-chlorin e<sub>6</sub> 5