

New dimeric chlorophyll *a* derivatives with di-, tri- and tetraethylene glycol fragments as a spacers between the macrocycles

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Abstract

Novel phorbin-phorbin and chlorin-chlorin dimers with oligoethylene glycol spacers was synthesized using methylpheophorbide *a* as start material. *Exo* ring ester group transesterification with 2-chloro-*N*-methylpyridinium iodide activation were used for dimeric molecules formation. Chlorin-chlorin dimers was obtained from corresponding phorbin-phorbin dimers by phorbin fragments *exo* rings recovering with methylamine.