marine drugs

Supplementary material

Cytotoxic potential of the marine diatom *Thalassiosira rotula*: insights into bioactivity of 24-methylene-cholesterol

Adele Cutignano [1,2,†,*], Mariarosaria Conte [3,†], Virginia Tirino [4], Vitale Del Vecchio [4], Roberto De Angelis [2], Angela Nebbioso [3], Lucia Altucci [3,5#] and Giovanna Romano [2#]

1 CNR-Institute of Biomolecular Chemistry-Via Campi Flegrei, 34-80078 Pozzuoli (Napoli), Italy;
2 Stazione Zoologica Anton Dohrn, Ecosustainable Marine Biotechnology Department, Villa Comunale, 80121 Napoli, Italy
3 Department of Precision Medicine, University of Campania 'L. Vanvitelli', Via L. De Crecchio 7, 80138 Napoli, Italy
4 Department of Experimental Medicine, Section of Biotechnology, Molecular Medicine and Medical Histology, University of Campania "L. Vanvitelli", Via L. de Crecchio 7, 80138 Napoli, Italy
5 Biogem, Institute of Molecular Biology and Genetics, Via Camporeale Area P.I.P., 83031 Ariano Irpino (Avellino) Italy.
* Correspondence: acutignano@icb.cnr.it; Tel.: +39 081 8675313
† These authors equally contributed to this work
# These authors equally contributed to this work

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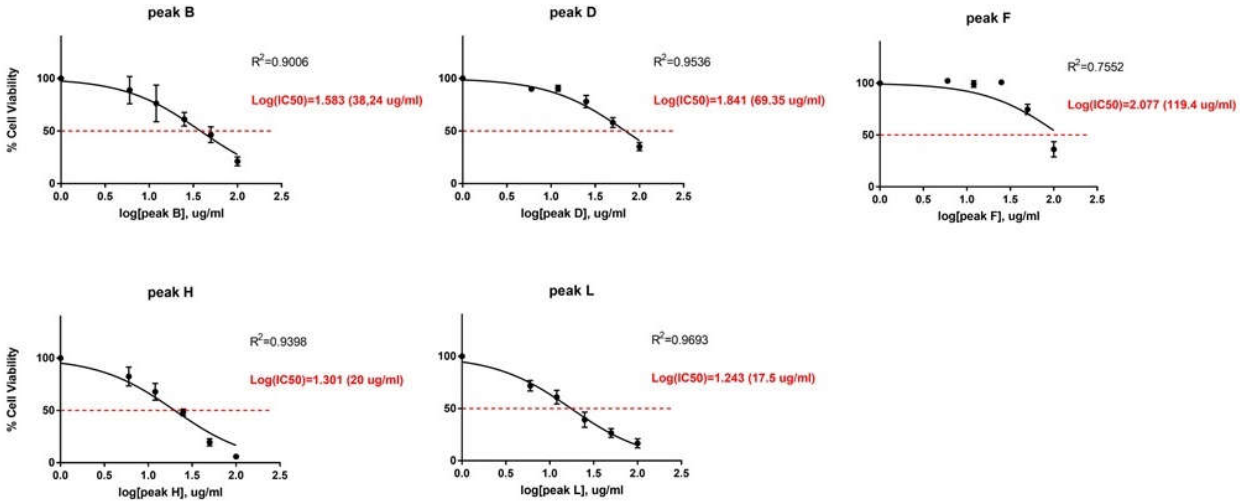


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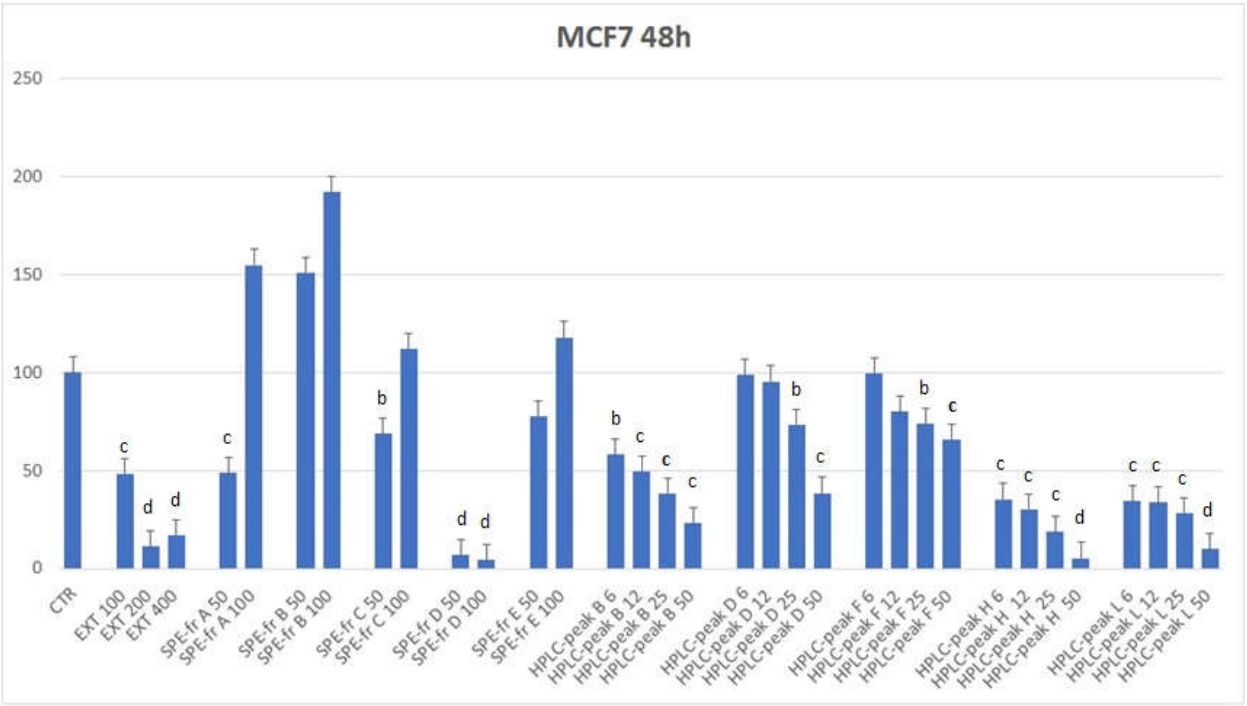


Figure S3. ^{1}H-NMR spectrum (600MHz, $CDCl_3$) of HPLC peak D (fucoxanthin).

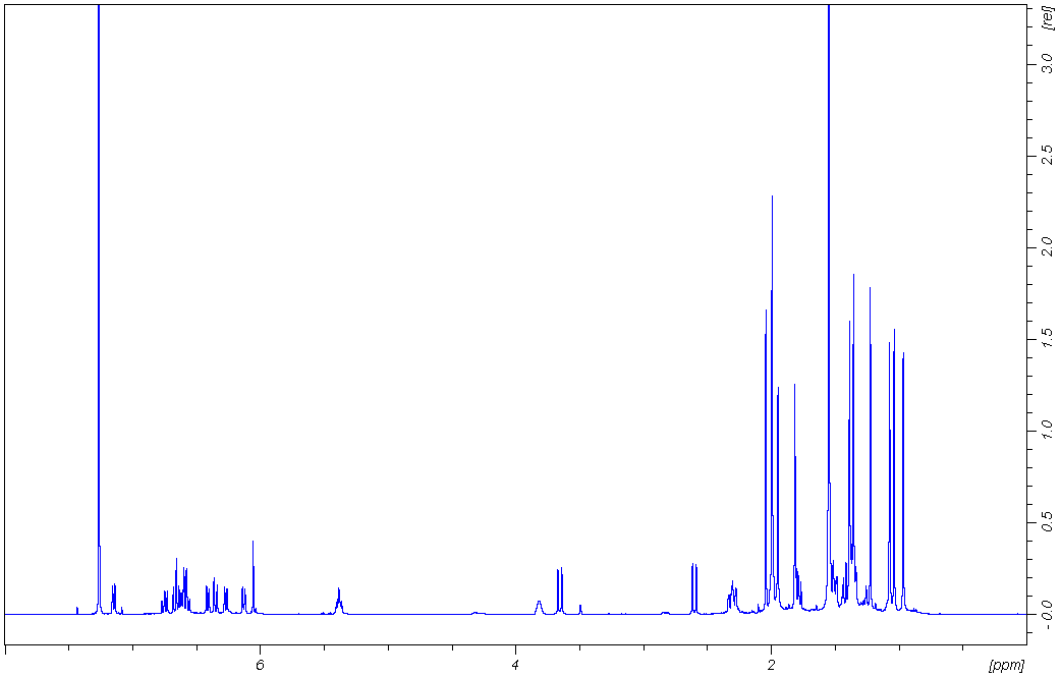


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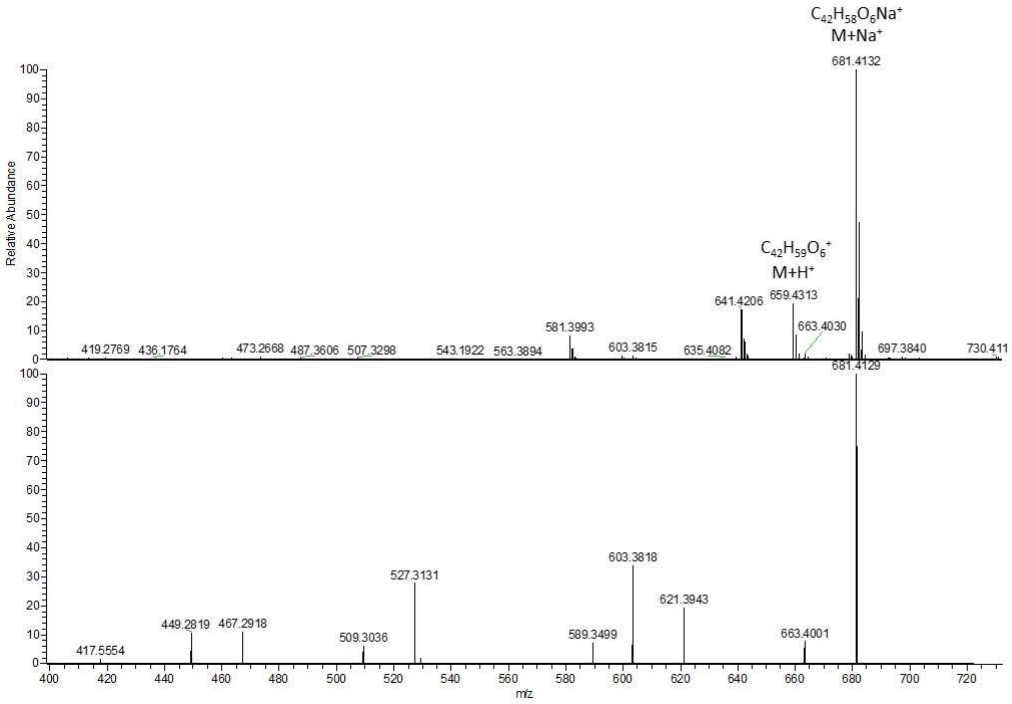


Figure S5. ^{1}H-NMR spectrum (600MHz, $CDCl_3$) of HPLC peak F (phytol).

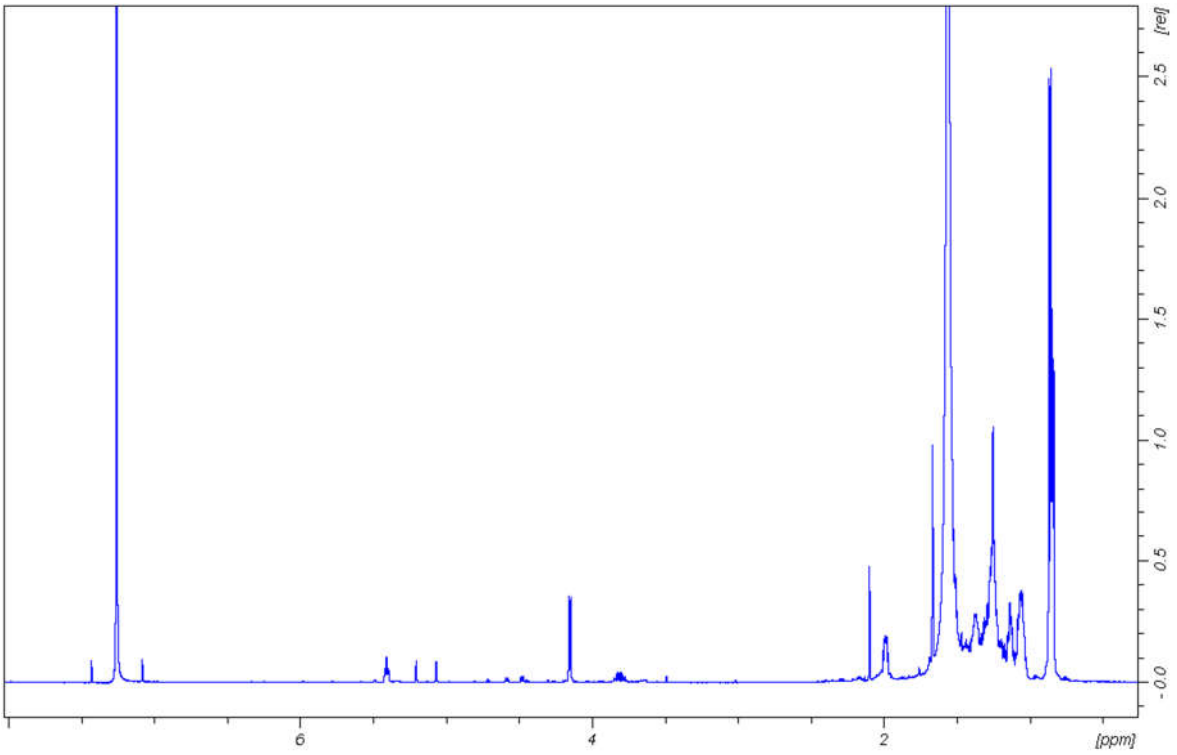


Figure S6. EI-MS spectrum of HPLC peak F (phytol).

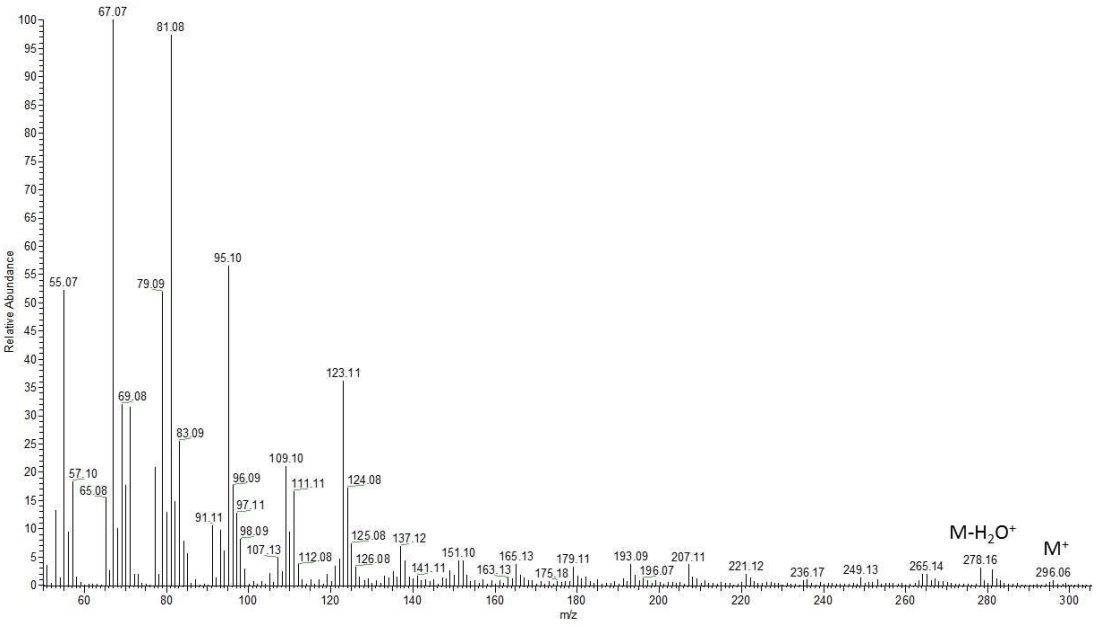


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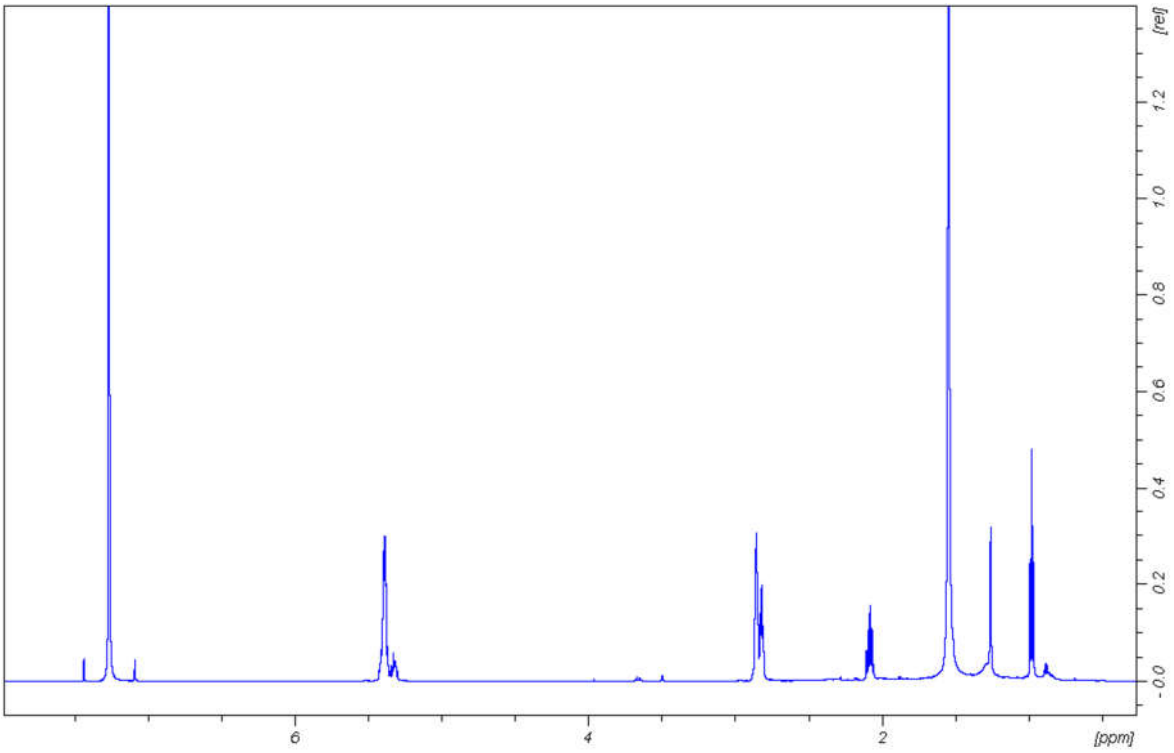


Figure S8. ^{1}H-NMR spectrum (600MHz, $CDCl_3$) of HPLC peak L (24-methylene cholesterol).

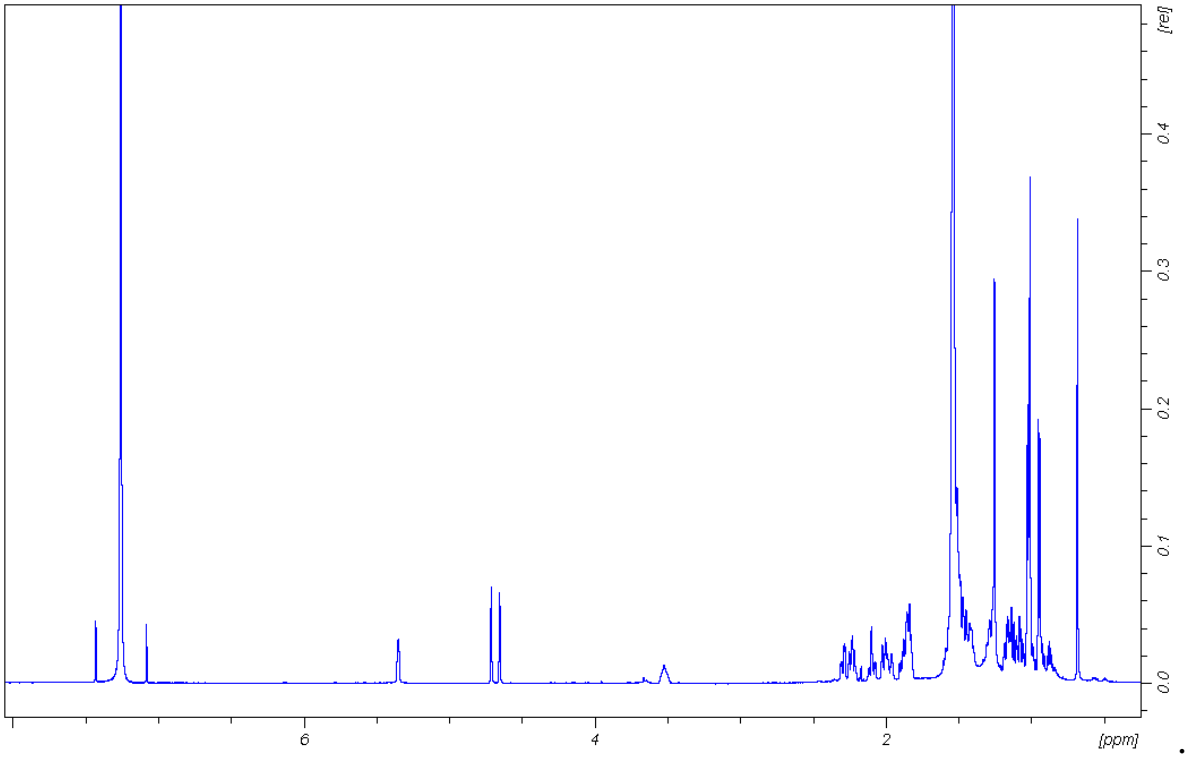


Figure S9. EI-MS spectrum of HPLC peak L (24-methylene cholesterol).

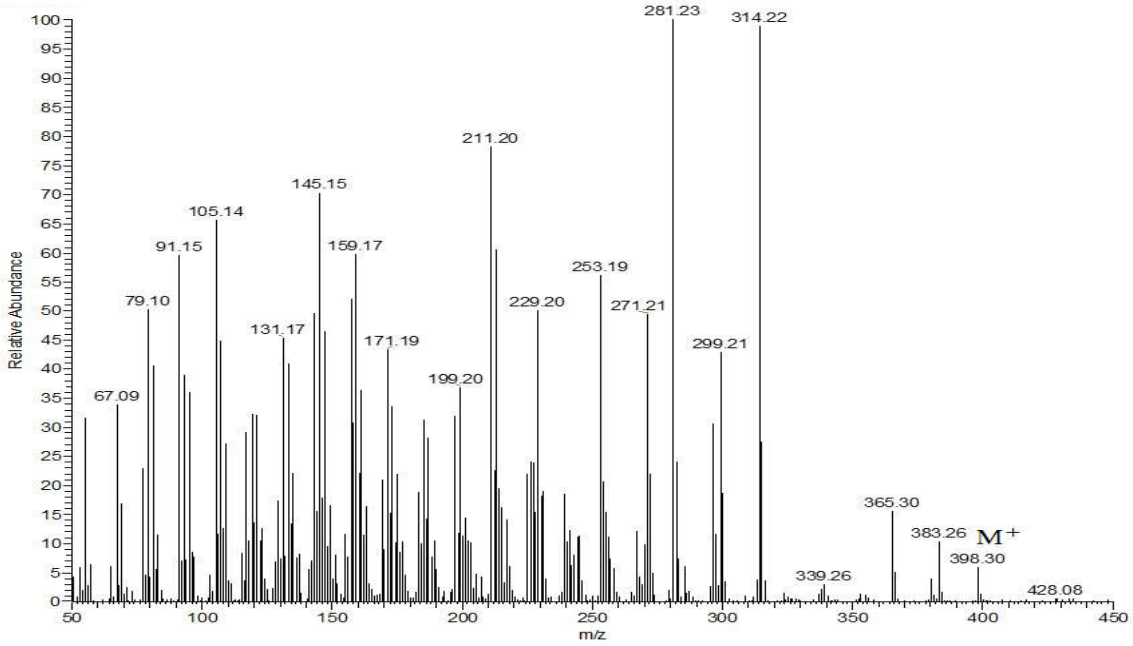


Figure S10: **Dynamic monitoring of A549 cell proliferation.** A549 cells were monitored in 96-well E-plate at the density of 20000 cells/well. Four hours after seeding, cells were treated with increasing concentrations of 24-methylene cholesterol (5-50 μM) for 48 h. Data shown are the mean ± SEM of at least three independent experiments performed in triplicate.

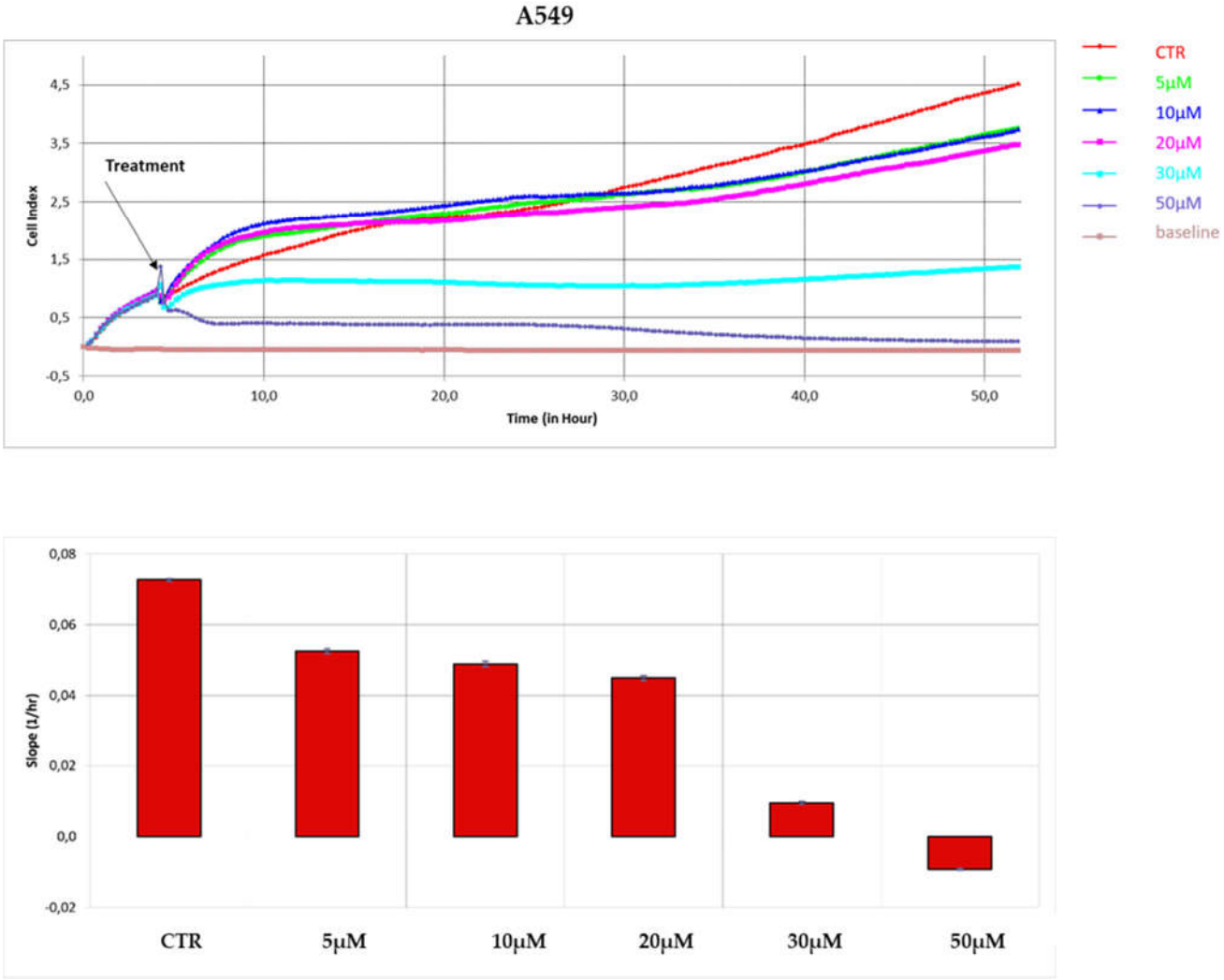


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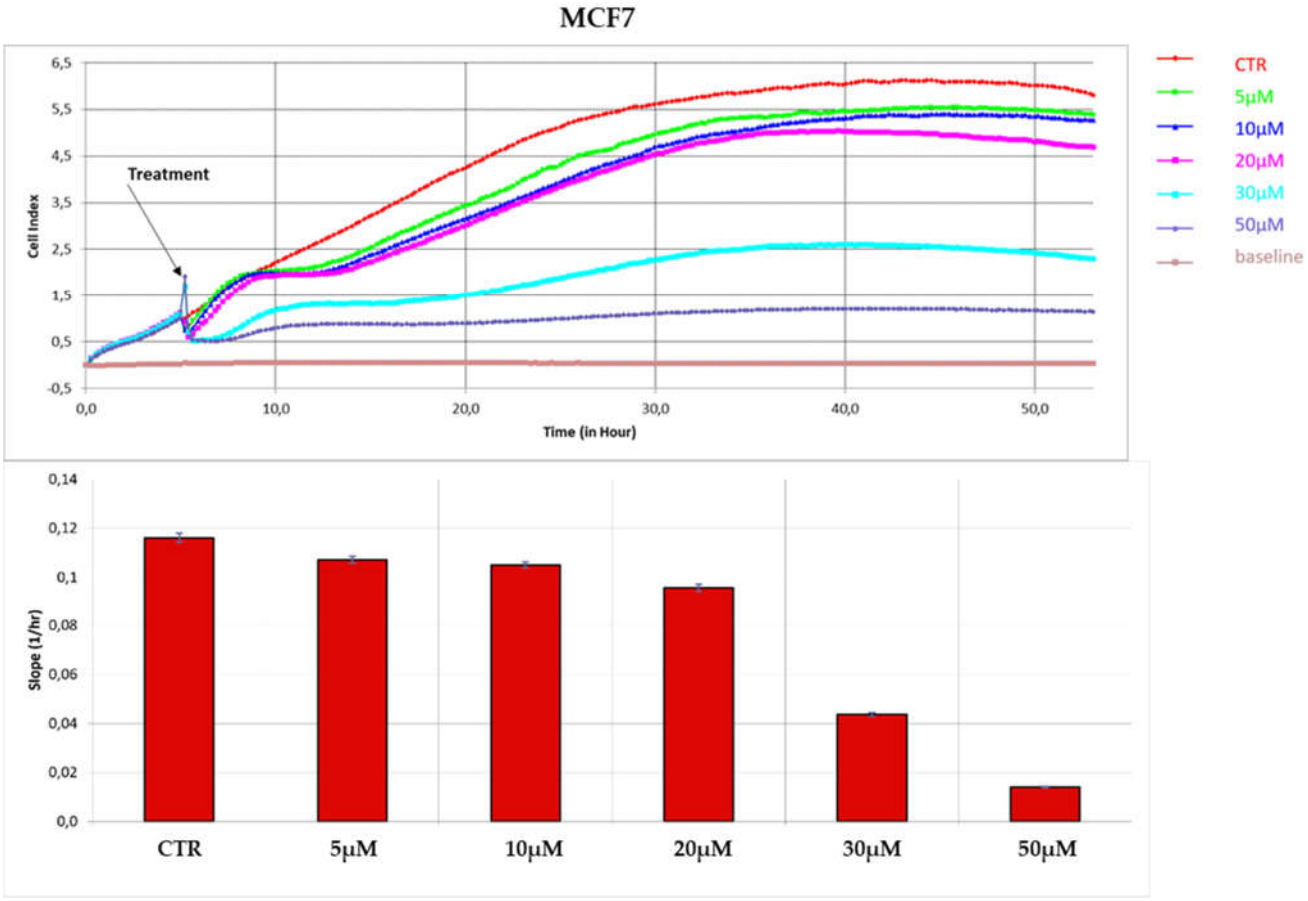


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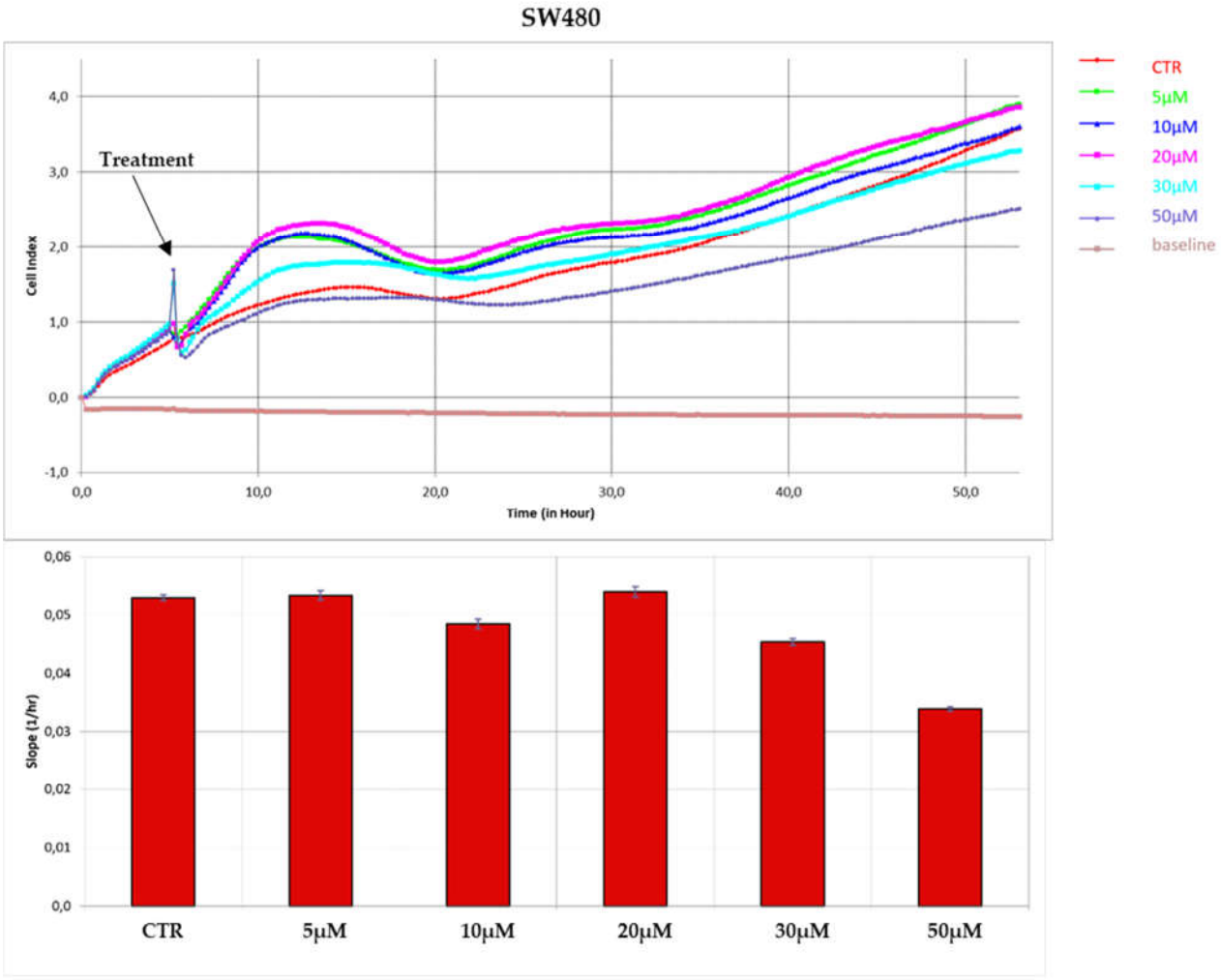


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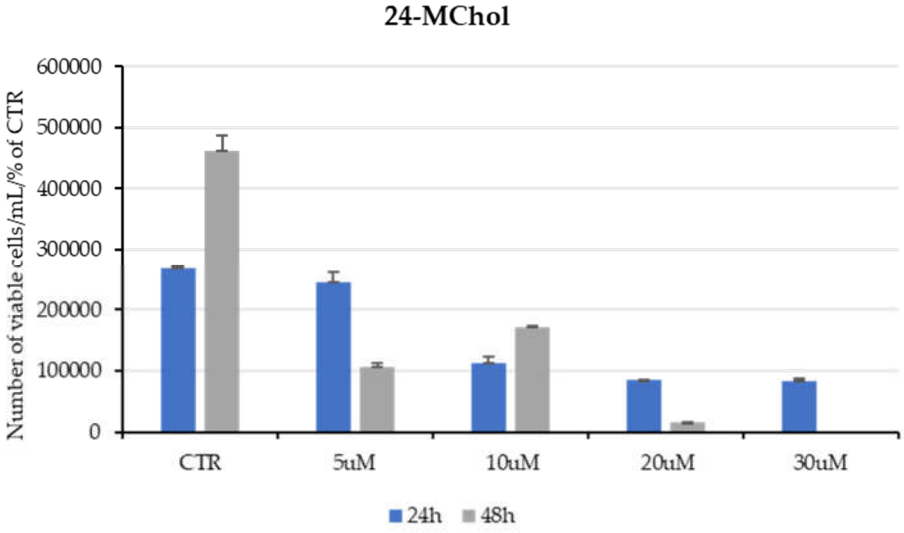


Figure S14: **Dynamic monitoring of MePR2B cell proliferation**. MePR2B cells were monitored in 96-well E-plate at the density of 20000 cells/well. Four hours after seeding, cells were treated with increasing concentrations of 24-methylene cholesterol (5-50 μM) for 48 h. Data shown are the mean ± SEM of at least three independent experiments performed in triplicate.

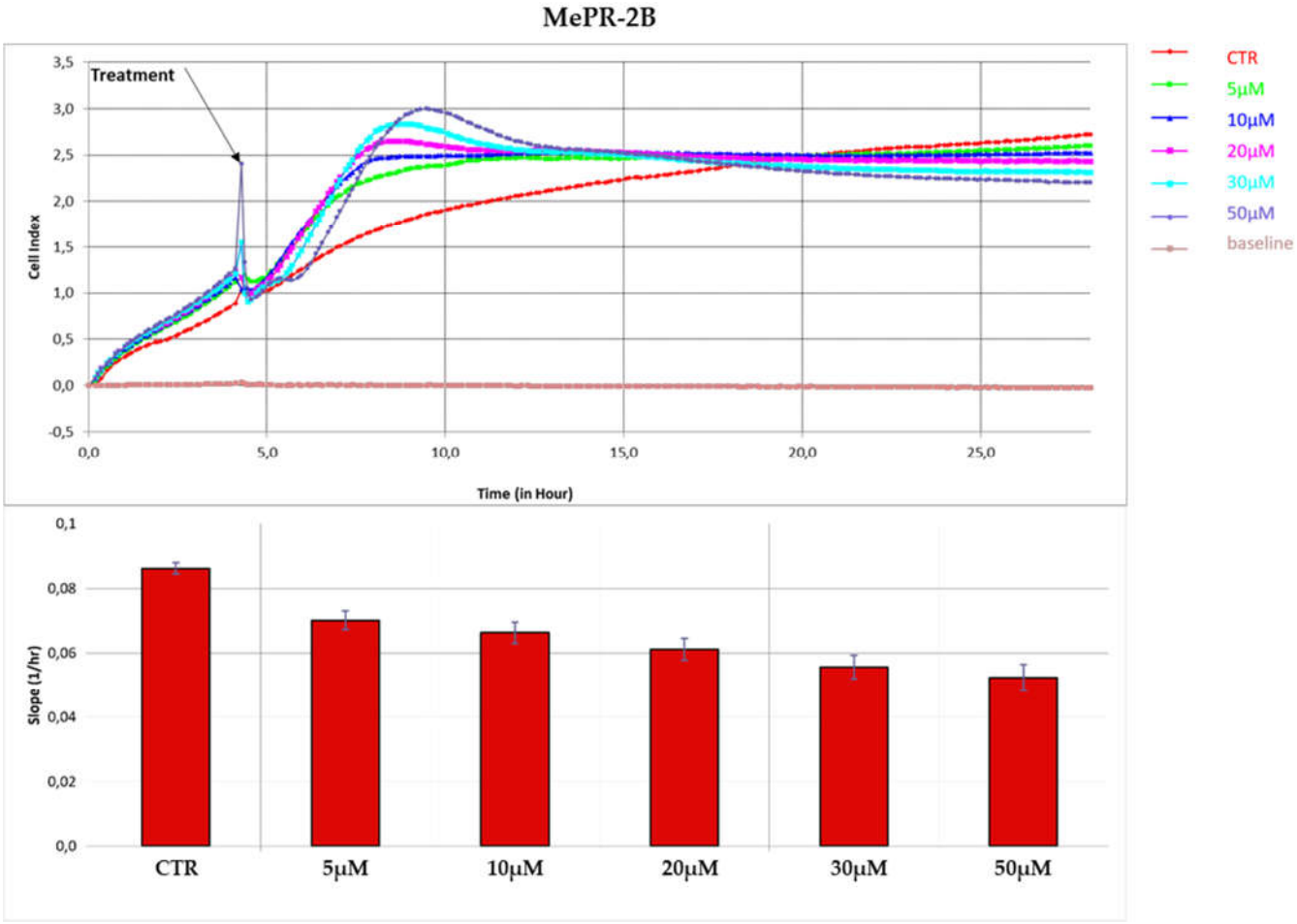


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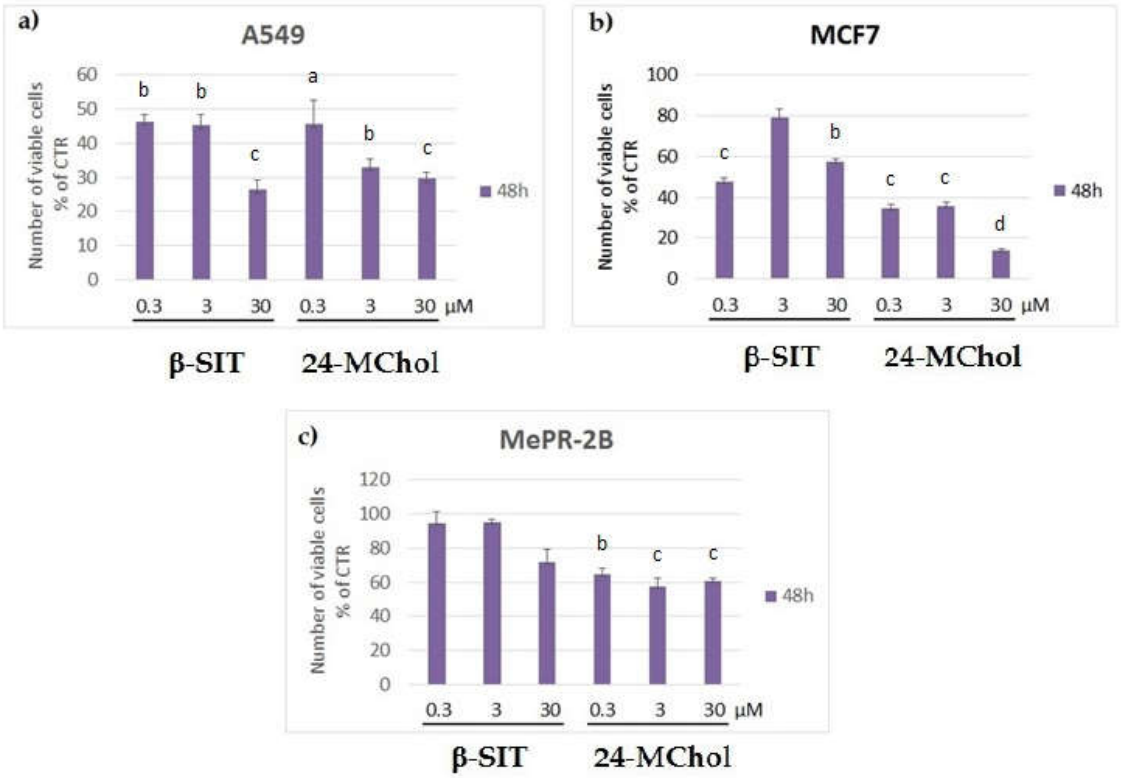


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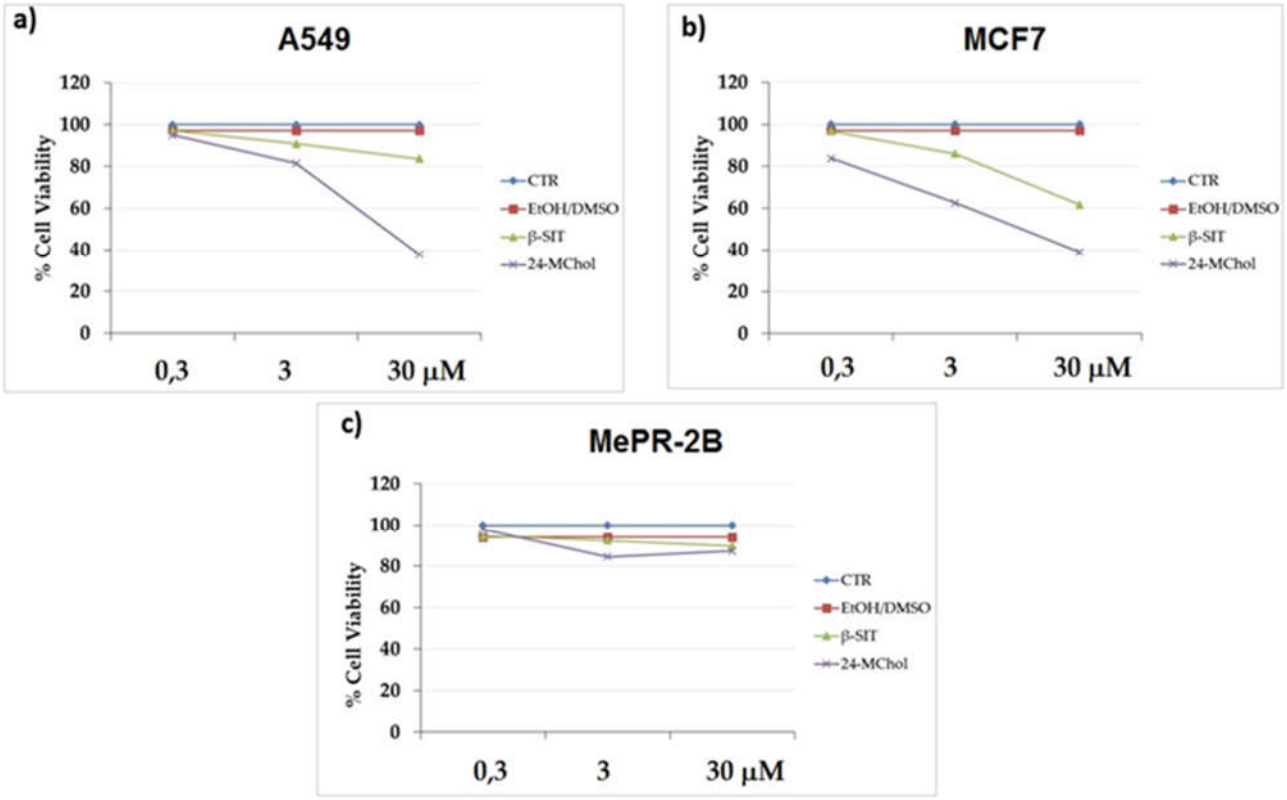


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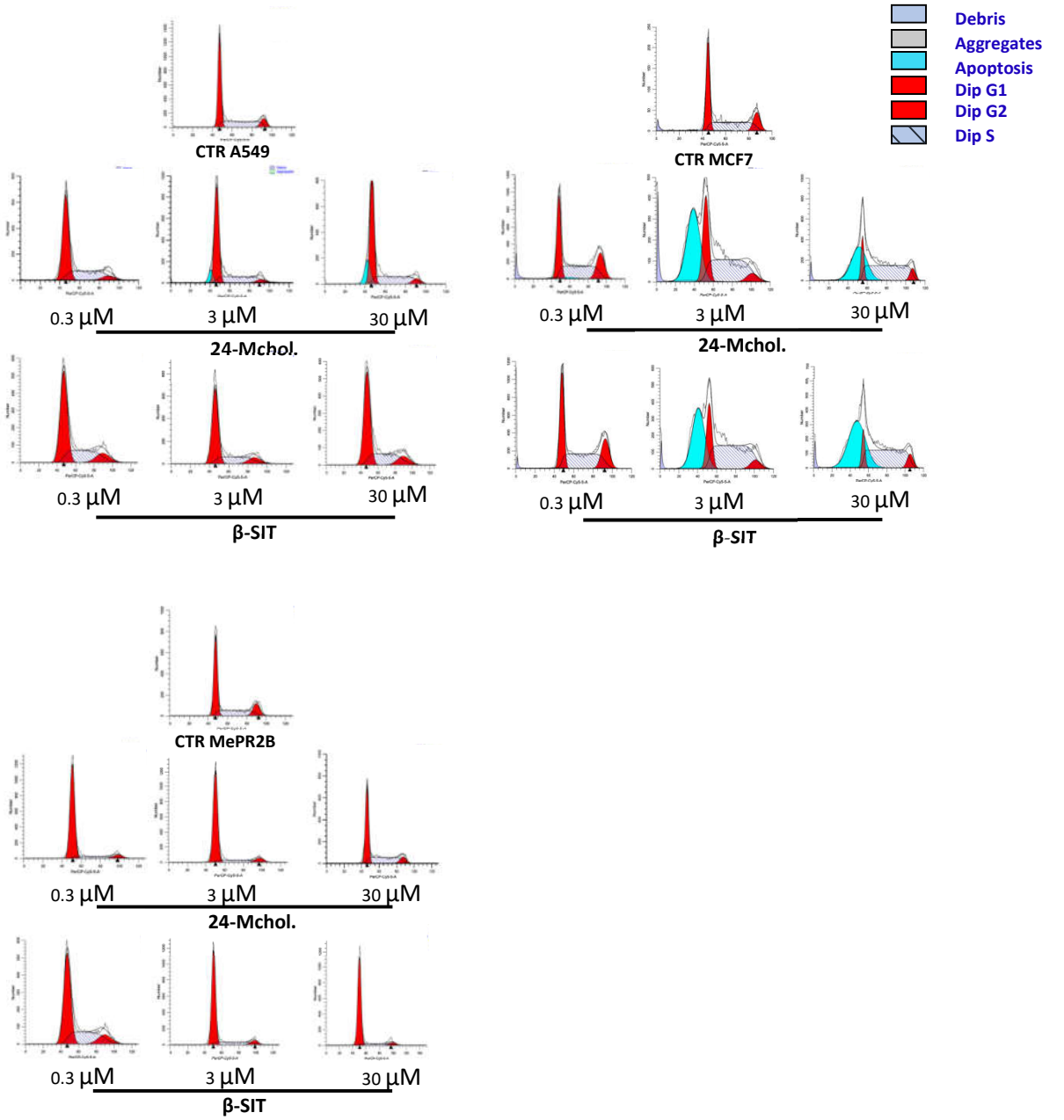


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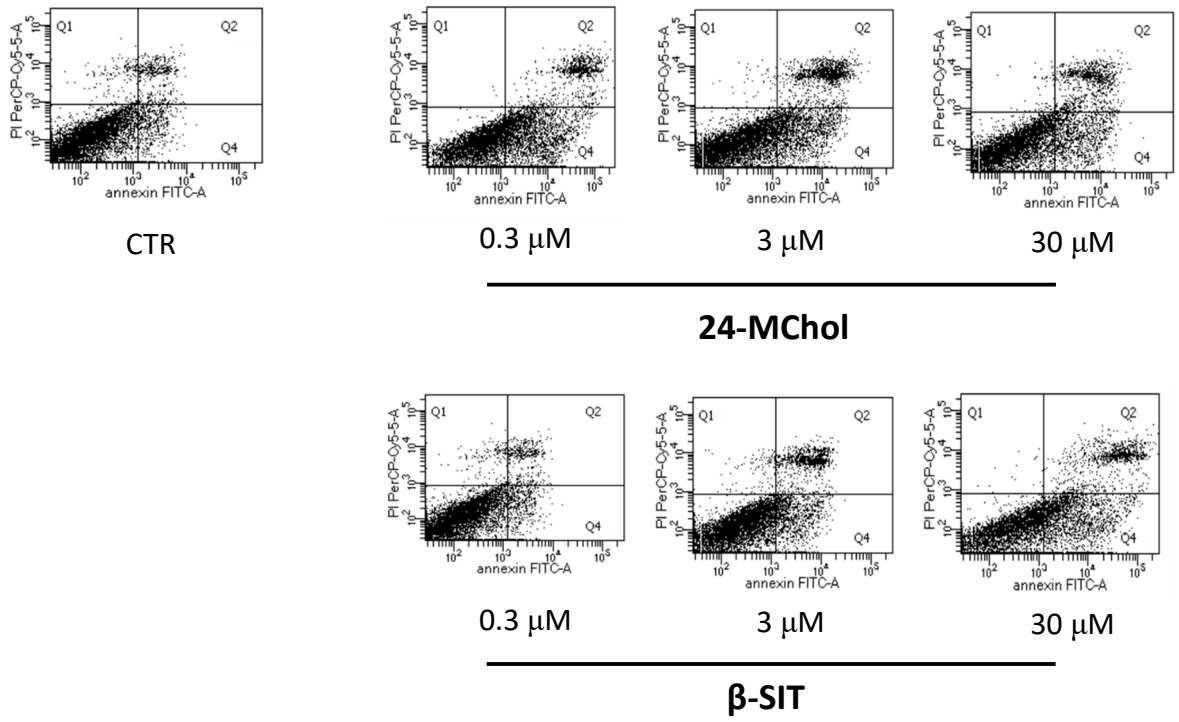


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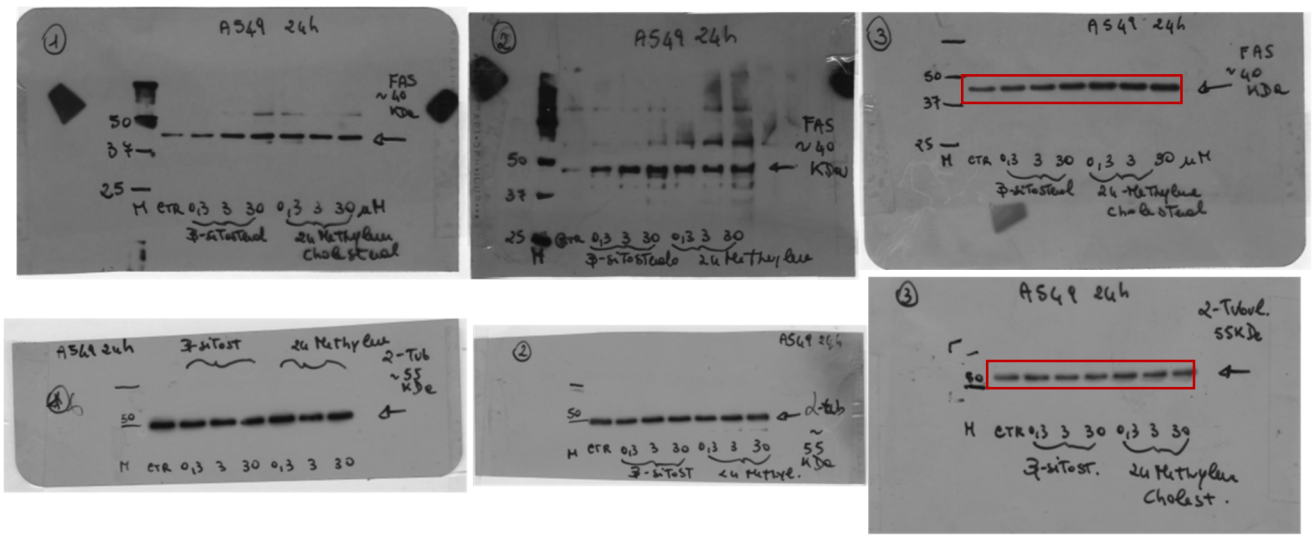


Figure S20. Original blots (biological triplicate) for FAS (Upper panel) in MCF7 after treatment with β-SIT and 24-MChol at increasing concentrations (0.3-30 μM). Alpha tubulin (lower panel) has been used as loading control. The arrows indicate the reference band corresponding to the marker with the molecular weights used during migration. The red dial indicates the band inserted into the manuscript

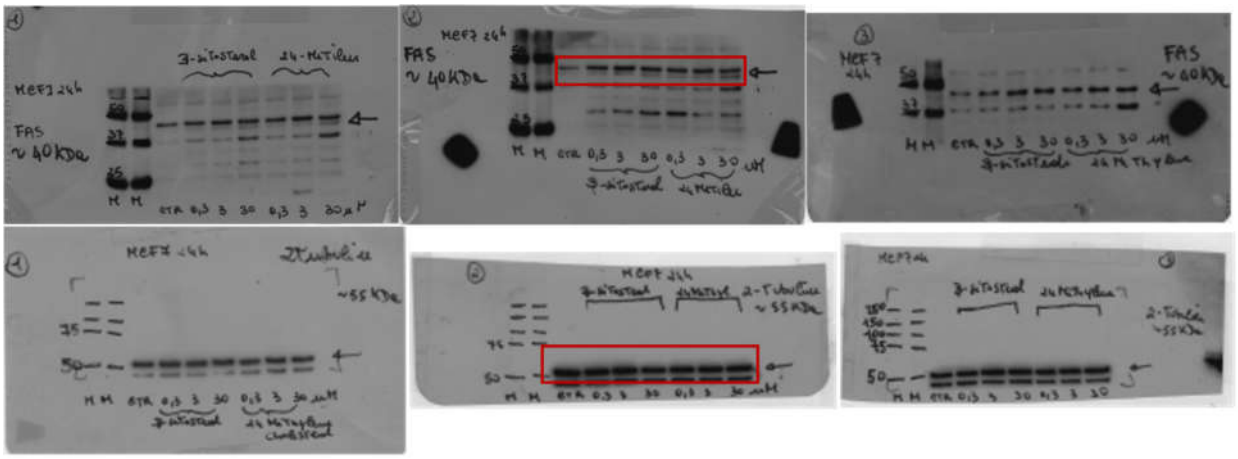


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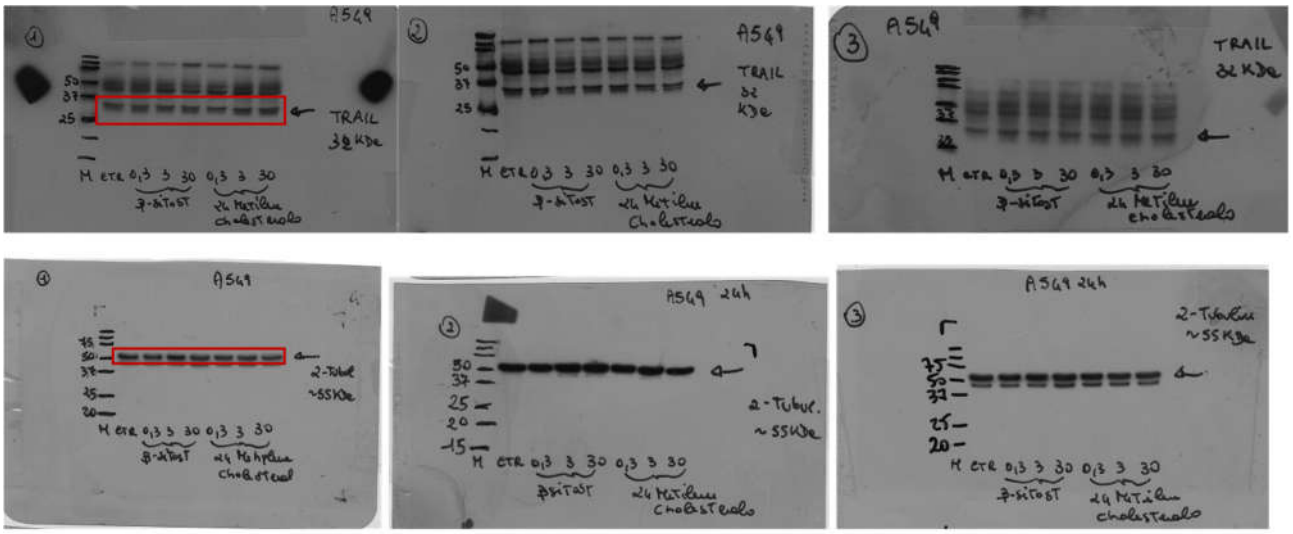


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