

Supplementary Materials

A Novel Compound from the Phenylsulfonylpiperazine Class: Evaluation of In Vitro Activity on Luminal Breast Cancer Cells

Fernanda Cardoso da Silva ¹, Ana Clara Cassiano Martinho ², Helen Soares Valen a Ferreira ¹, Raoni Pais Siqueira ¹, Vinicius Marques Arruda ^{1,3}, Joyce Ferreira da Costa Guerra ³, Maria Laura dos Reis de Souza ², Emanuelly Silva Landin ², Celso de Oliveira Rezende J nior ² and Thaise Gon alves de Ara ujo ^{1,4,*}

¹ Laboratory of Genetics and Biotechnology, Institute of Biotechnology, Universidade Federal de Uberl ndia, Patos de Minas 38700-002, MG, Brazil; fernanda.cardoso95@yahoo.com (F.C.d.S.); helensvalen a@gmail.com (H.S.V.F.); raoni.siqueira@ufu.br (R.P.S.); viniciusmarquesarruda@gmail.com (V.M.A.)

² Laboratory of Drug Candidate Synthesis, Institute of Chemistry, Universidade Federal de Uberl ndia, Uberl ndia 38400-902, MG, Brazil; anaclaracm25@gmail.com (A.C.C.M.); marialaura1200@hotmail.com (M.L.d.R.D.S.); emanuelly.landin@ufu.br (E.S.L.); celso@ufu.br (C.d.O.R.J.)

³ Laboratory of Biochemistry, Institute of Biotechnology, Universidade Federal de Uberl ndia, Patos de Minas 38700-002, MG, Brazil; joyceguerra@ufu.br (J.F.d.C.G.)

⁴ Laboratory of Nanobiotechnology Prof. Dr. Luiz Ricardo Goulart Filho, Institute of Biotechnology, Universidade Federal de Uberl ndia, Uberl ndia 38405-302, MG, Brazil

* Correspondence: tgaraujo@ufu.br; Tel.: +55-34-38142027

Table S1: Compounds with half-maximal inhibitory concentration (IC_{50}) > 160 μ M. Cells lines were treated for 48 h and viability was determined using the MTT assay.

Compound	Structure	IC50 (mM)			
		MCF-10A	MCF7	MD-AMB 231	MD-AMB 453
13		> 160	> 160	> 160	> 160
14		> 160	> 160	> 160	> 160
15		> 160	> 160	> 160	> 160
16		> 160	> 160	> 160	> 160
17		> 160	> 160	> 160	> 160
18		> 160	> 160	> 160	> 160
19		> 160	> 160	> 160	> 160
20		> 160	> 160	> 160	> 160

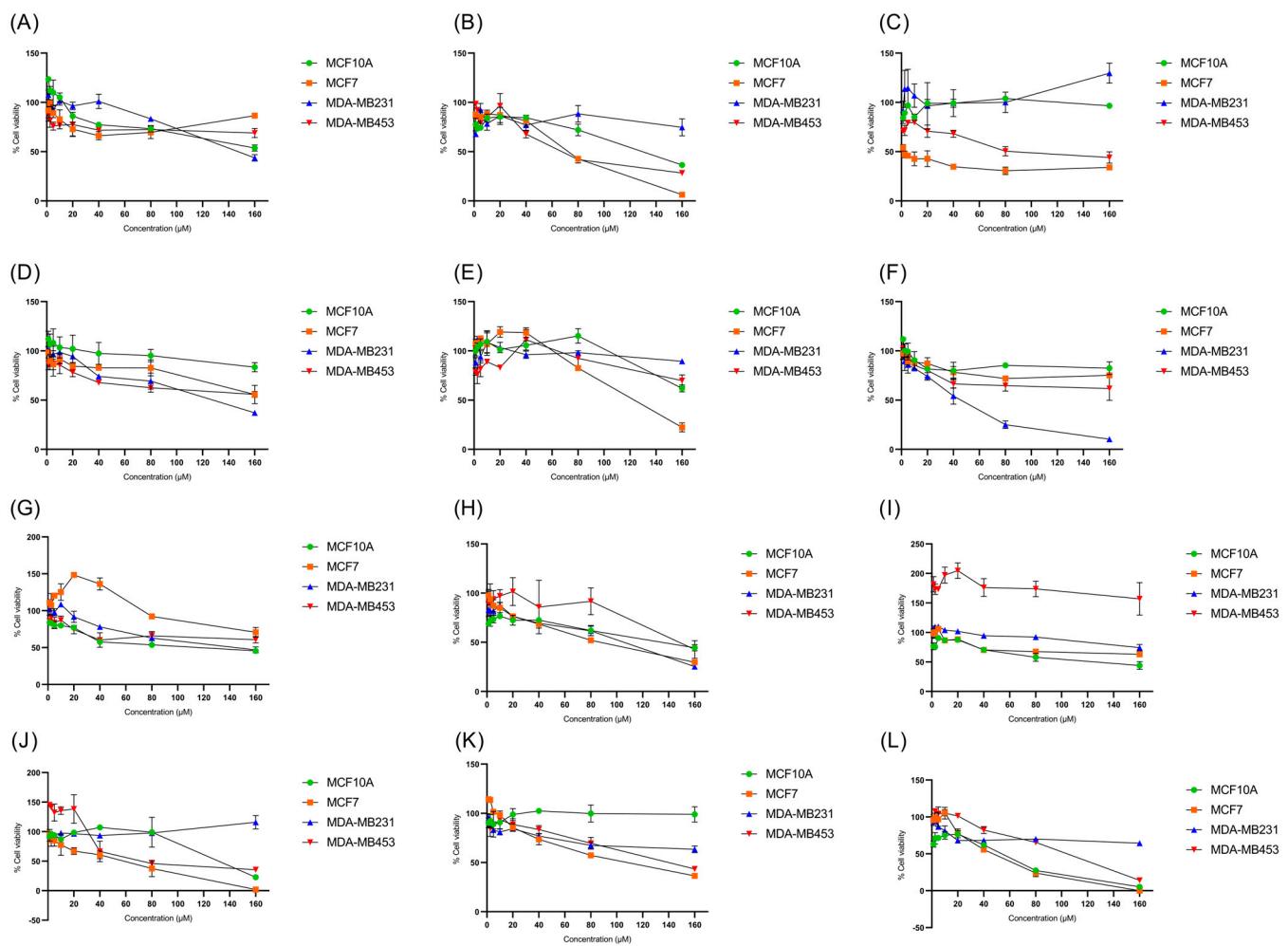


Figure S1: Graphical representation of compounds with half-maximal inhibitory concentration ($\text{IC}_{50} < 160 \mu\text{M}$) in at least one of the tested cell lines, compounds **1 - 12** (A-L). Cell lines were treated for 48 h and viability was determined using the MTT assay.

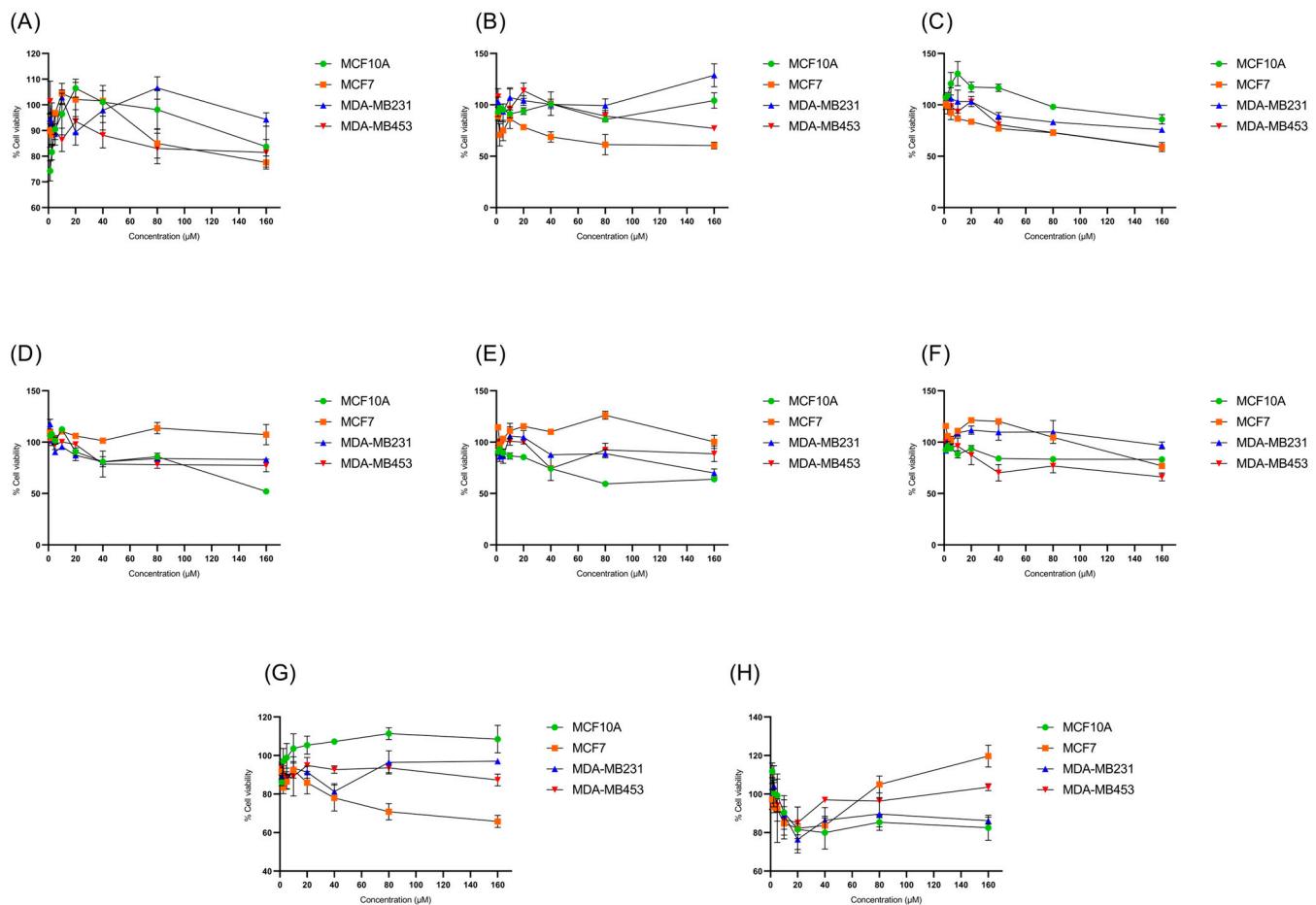


Figure S2. Graphical representation of compounds with half-maximal inhibitory concentration ($\text{IC}_{50} > 160 \mu\text{M}$, compounds 13 - 20 (A-H). Cell lines were treated for 48 h and viability was determined using the MTT assay.

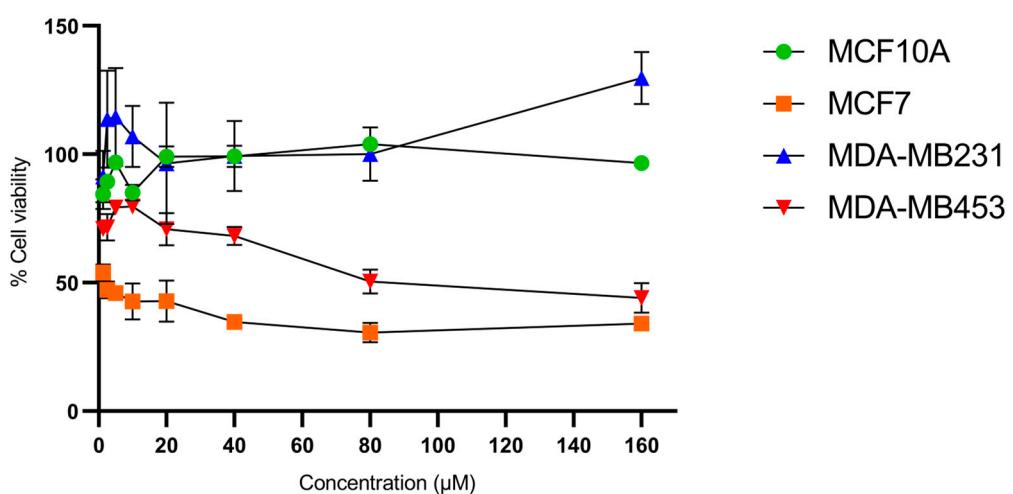


Figure S3: Graphical representation of the cytotoxic activity of compound 3 in the cell lines tested.