**Table 3S**

Cytotoxicity of snake venom phospholipases A2 to different cancer cell lines.

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| --- | --- | --- | --- |
| Phospholipase A2; Snake species | Cell line | Activity | Reference |
| Crotoxin; *Crotalus durissus*  | Murine erythroleukemia (MEL) cells, clone DS-19 | The 50% inhibitory concentration (IC50) - approximately 0.1-0.2 µM (3.0-5.0 µg/ml) | Corin et al., 1993 |
| Chronic myeloid leukemia cell line K562 | The IC50 was 32.73 μg/ml after 48 h of treatment. At 72 h of threatment with 50 μg/ml - the inhibition rate 85.9% | Yan et al., 2006 |
| MCF-7 | At 72 h of treatment with 50 μg/mL - the inhibitory rate 33.8%; with 100 μg/mL - the inhibitory rate 57.0% | Yan et al., 2007 |
| Human lung adenocarcinoma A549 cells | Treatment for 48 h; IC50 78 μg/mL | Ye et al., 2011 |
| BJ-PLA2-I; *Bothrops jararaca*  | Human leukemia cell line HL-60  | Viabilities between 70 and 80% at 40-120 µg/ml | Cedro et al., 2018  |
| BthA-I-PLA2; *B. jararacussu* | Leukemic cells Jurkat; human breast tumor cells SK-BR-3; Ehrlich ascites tumor (EAT) cells | 100 μg/mL; Jurkat viability 50%; SK-BR-3 viability 30%;EAT cells viability 80% | Roberto et al., 2004 |
| BmooTX-I; *B. moojeni* | Jurkat cells | 100 μg/mL; viability 50% | Santos-Filho et al., 2008 |
| MTX-I; *B. brazili* | Jurkat cells | 100 μg/mL; viability 40% | Costa et al., 2008 |
| MjTX-I, *B. moojeni* | Chronic myeloid leukemia cell lines K562-S and K562-R | The IC50 values for K562-S and K562-R cells were 257 μg/mL and 191 μg/mL, respectively | Benati RB, et al., 2018 |
| BnSP-6; *B. pauloensis* | Human breast cancer cells MDA-MB-231 | 12.5–100 µg/mL; damaging about 10 to 45% of cells | Azevedo et al., 2016 |
| VBBPLA2; *Vipera berus berus* | Chronic myeloid leukemia cells K-562 | At 48 h of treatment with 100 μg/mL (7.23 μM) the viability reduced to 20% | Samel et al., 2013 |
| Pllans-II, an acidic monomericAsp49-PLA2 from *Porthidium lansbergii lansbergii* | human breast cancer cell MCF7; cervix adenocarcinoma cell line HeLa | At 24 h of treatment with 100 μg/mL;HeLa cells viability to 45%;MCF7 cells viability about 80% | Jiménez-Charris et al., 2019 |
| Recombinant basic PLA(2) (rSSBPLA(2)); *Lapemis hardwickii* | Human myeloid leukemia cells HL-60; human neuroblastoma cells SK-N-SH; human gastric cancer cells MGC-803 | IC50 for HL60 - 45.3 µg/ml; SK-N-SH - 57.12 µg/ml; MGC-803 - 69.3 µg/ml | Liang et al., 2005 |
| Nigexine; *Naja nigricollis* | Mouse neuroblastoma cells C-13 T; human myeloid leukemia cells HL-60 | IC50 for C-13T – 2.9 µM (38.6 µg/ml); HL-60 – 3.1 µM (41.2 µg/ml) | Chwetzoff et al., 1989 |

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