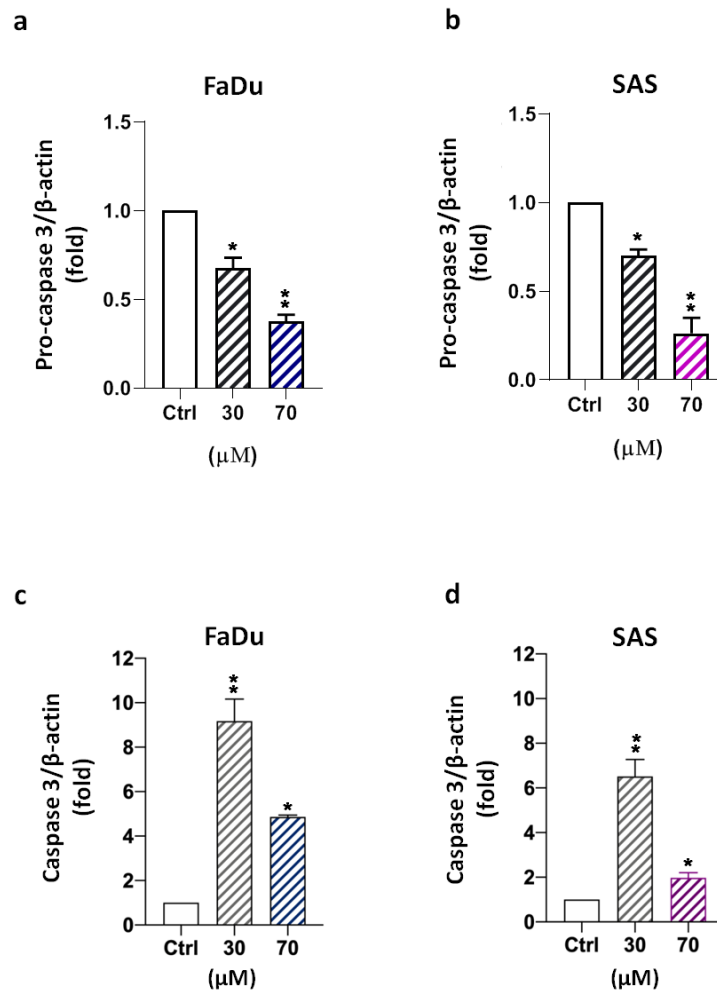


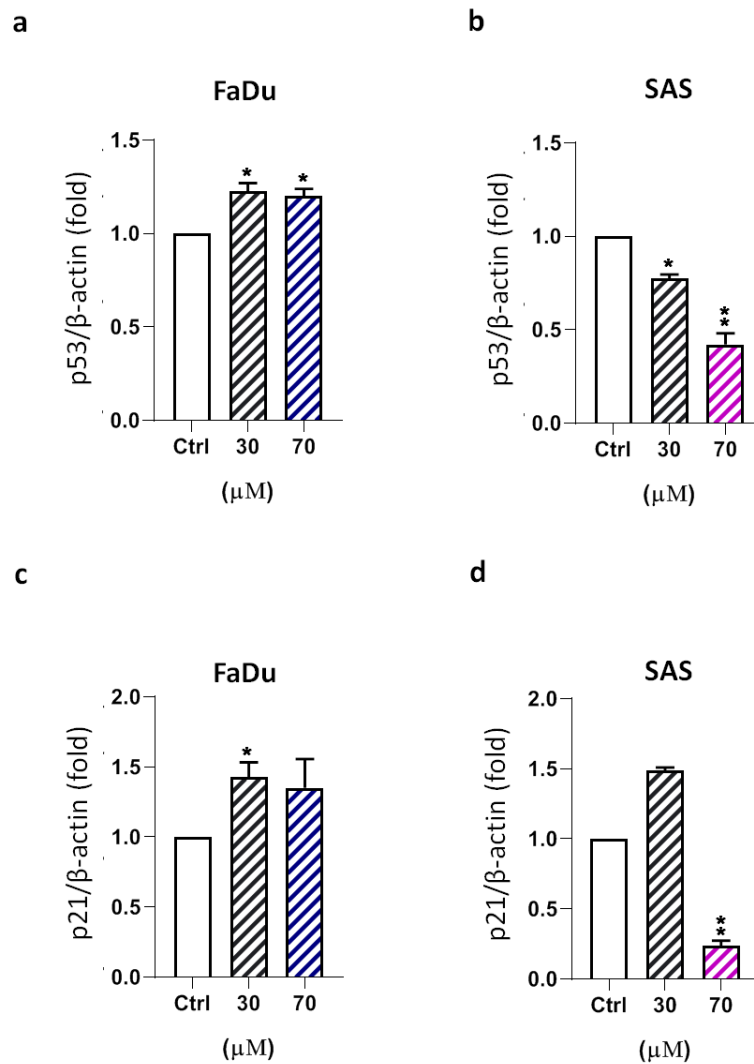
1 Supplementary figure 1



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3 **Supplementary Fig. 1** Quantification of Western blots represented in Figure 2C. Triplicates
4 of the experiments shown in Figure 2C were quantified using densitometry (GraphPad
5 Prism8 software). **Densitometric analysis of all samples normalized against the level of total**
6 **protein. The relative expression of pro-caspase 3 and β-actin are presented as pro-caspase**
7 **3/β-actin (fold) in (a) FaDu and (b) SAS, and caspase 3 and β-actin are presented as**
8 **caspase-3/β-actin (fold) in (c) FaDu and (d) SAS. We used β-actin as the reference. All data**
9 **are presented as means ± SEM, n = 3. *p < 0.05. **p < 0.01 compared to control (Ctrl).**

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24 Supplementary figure 2



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27 **Supplementary Fig. 2** Quantification of Western blots represented in Figure 3B. Triplicates

28 of the experiments shown in Figure 2C were quantified using densitometry (GraphPad

29 Prism8 software). **Densitometric analysis of all samples normalized against the level of total**30 **protein. The relative expression of p53 and β-actin are presented as p53/β-actin (fold) in (a)**31 **FaDu and (b) SAS, and p21 and β-actin are presented as p21/β-actin (fold) in (c) FaDu and (d)**32 **SAS. We used β-actin as the reference. All data are presented as means ± SEM, n = 3. *p <**33 **0.05. **p < 0.01 compared to control (Ctrl).**

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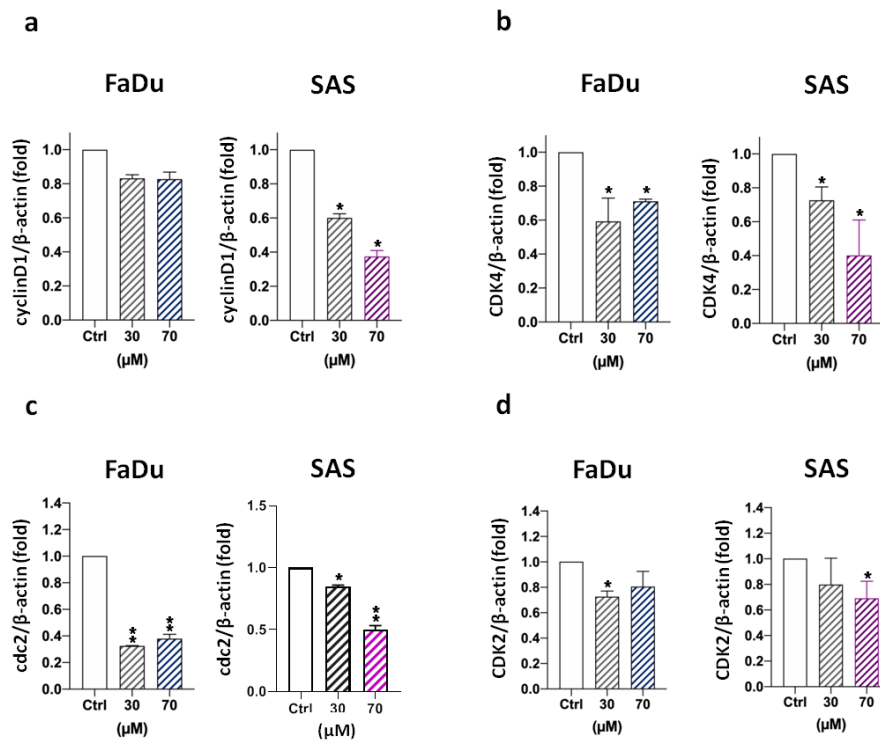
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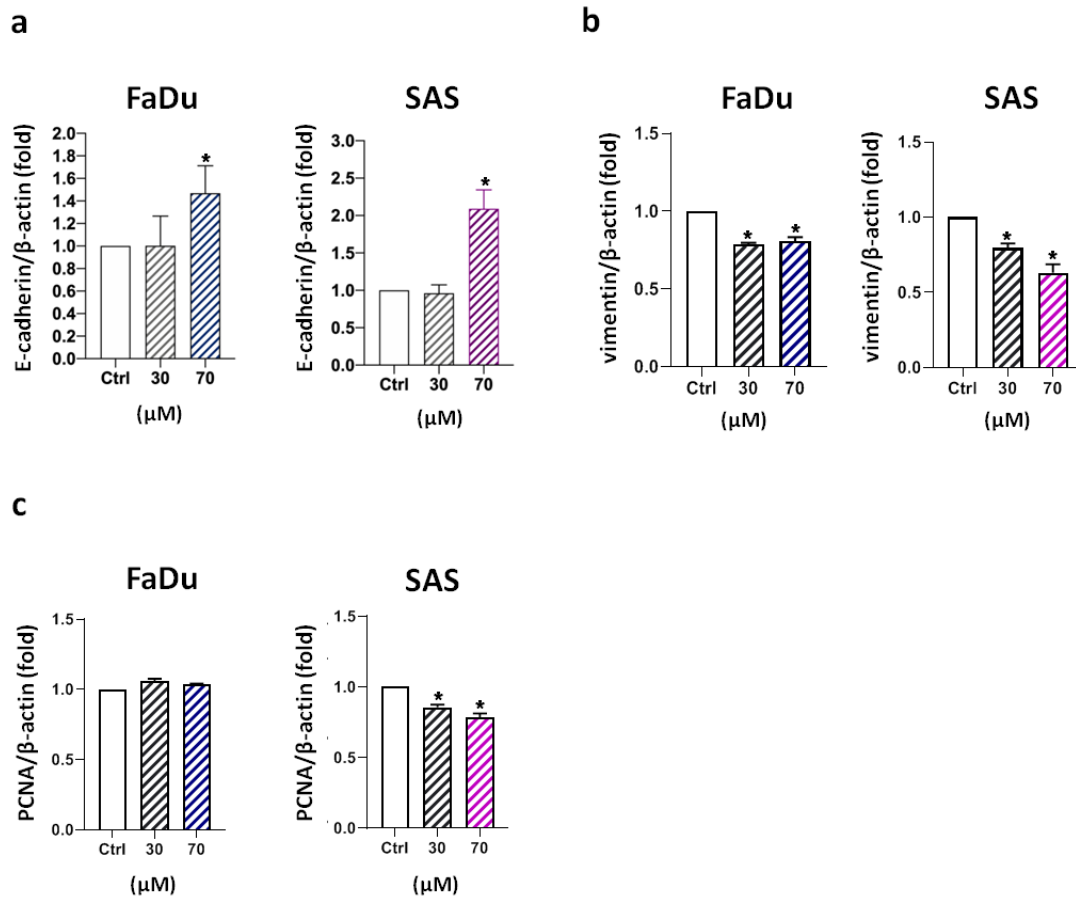
45 Supplementary figure 3



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 47 **Supplementary Fig. 3** Quantification of Western blots represented in Figure 3C. Triplicates
 48 of the experiments shown in Figure 2C were quantified using densitometry (GraphPad
 49 Prism8 software). **Densitometric analysis of all samples normalized against the level of total**
 50 **protein. The relative expression of cyclin D1 and β -actin is presented as cyclin D1/ β -actin**
 51 **(fold) in (a) FaDu and SAS, and that of CDK4 and β -actin is presented as CDK4/ β -actin**
 52 **in (b) FaDu and SAS. Densitometric analysis of all samples normalized against the level of**
 53 **total protein. The relative expression of cdc2 and β -actin is presented as cdc2/ β -actin (fold) in**
 54 **(c) FaDu and SAS, and that of CDK2 and β -actin is presented as CDK2/ β -actin (fold) in**
 55 **(d) FaDu and SAS. We used β -actin as the reference. All data are presented as means \pm SEM, n =**
 56 **3. *p < 0.05. **p < 0.01 compared to control (Ctrl).**

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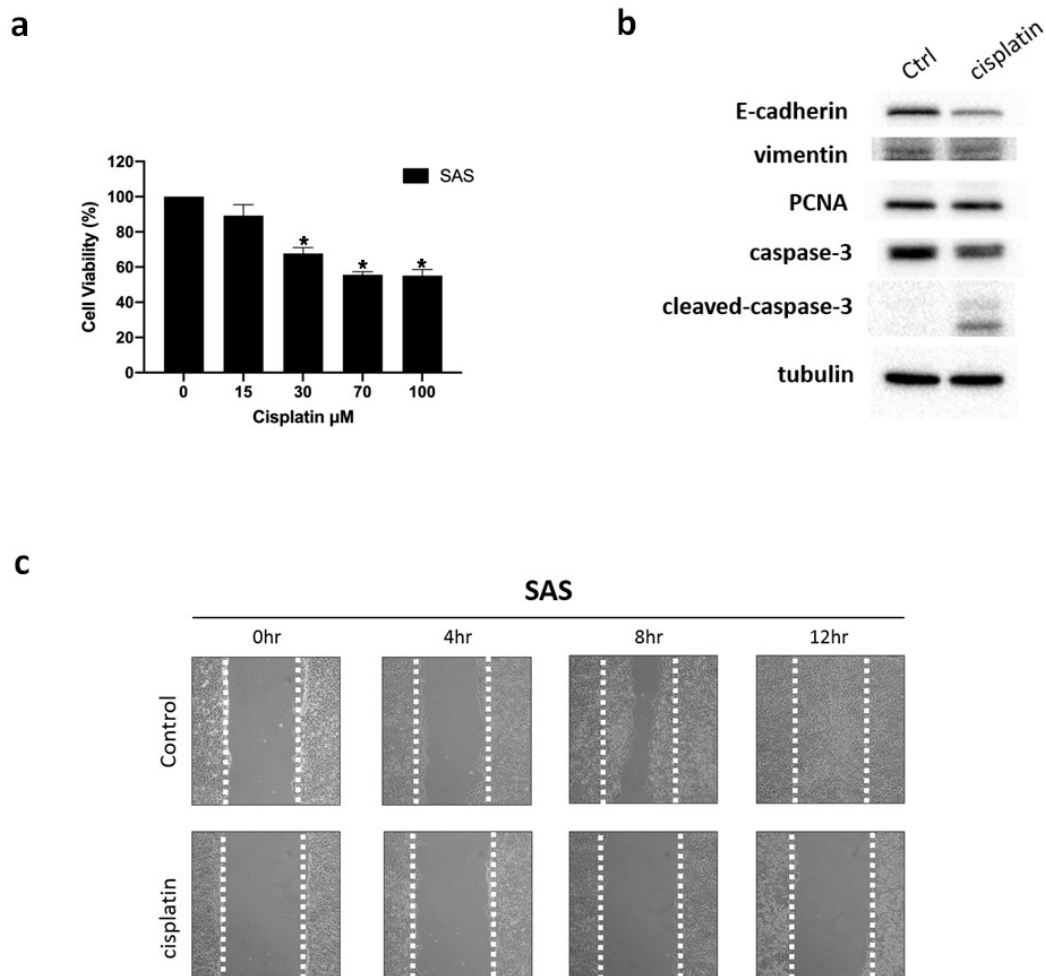
74 Supplementary figure 4



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 76 **Supplementary Fig. 4** Quantification of Western blots represented in Figure 4C. Triplicates
 77 of the experiments shown in Figure 2C were quantified using densitometry (GraphPad
 78 Prism8 software). **Densitometric analysis of all samples normalized against the level of total**
 79 **protein. The relative expression of E-cadherin and β-actin is presented as E-cadherin/β-actin**
 80 **(fold) in (a) FaDu and SAS, and that of vimentin and β-actin is presented as vimentin/β-actin**
 81 **(fold) in (b) FaDu and SAS. Densitometric analysis of all samples normalized against the**
 82 **level of total protein. The relative expression of PCNA and β-actin is presented as**
 83 **PCNA/β-actin (fold) in (c) FaDu and SAS. All data are presented as means ± SEM, n = 3. *p**
 84 **< 0.05 compared to control (Ctrl).**

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89 Supplementary figure 5
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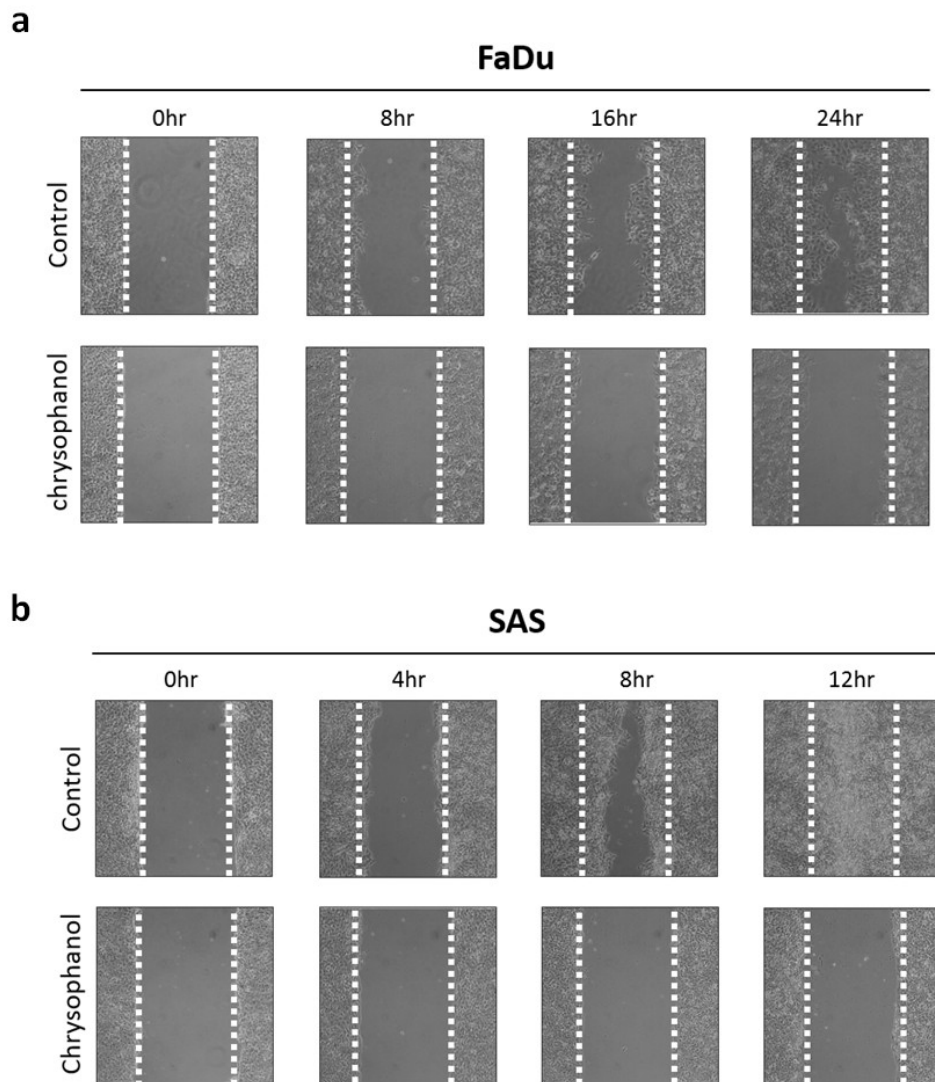


91 **Supplementary Fig. 5** Effect of cisplatin on cell viability, EMT, apoptosis, and migration. (a)
 92 After the incubation time course, cell viability was determined by using the MTT assay. Data
 93 are presented as means \pm SEM, $n = 3$. * $p < 0.05$ compared to control (Ctrl, 0 μM). (b) The
 94 expression of E-cadherin, vimentin, PCNA, caspase-3, and cleaved-caspase-3 was analyzed
 95 by western blotting in cisplatin-treated cells (43.8 μM) or control (Ctrl, 0 μM). (c) Migration
 96 was assessed following mechanical wound healing. Cell migration was evaluated at 12 h after
 97 treatment with 43.8 μM cisplatin.

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102 Supplementary figure 6

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104 **Supplementary Fig. 6** Chrysophanol inhibits cell migration in a lower concentration.

105 Migration was assessed following mechanical wound healing in FaDu (a) and SAS (b). Cell
106 migration was evaluated at 12 h or 24h after treatment with 10 μ M of chrysophanol or not
107 (Control).

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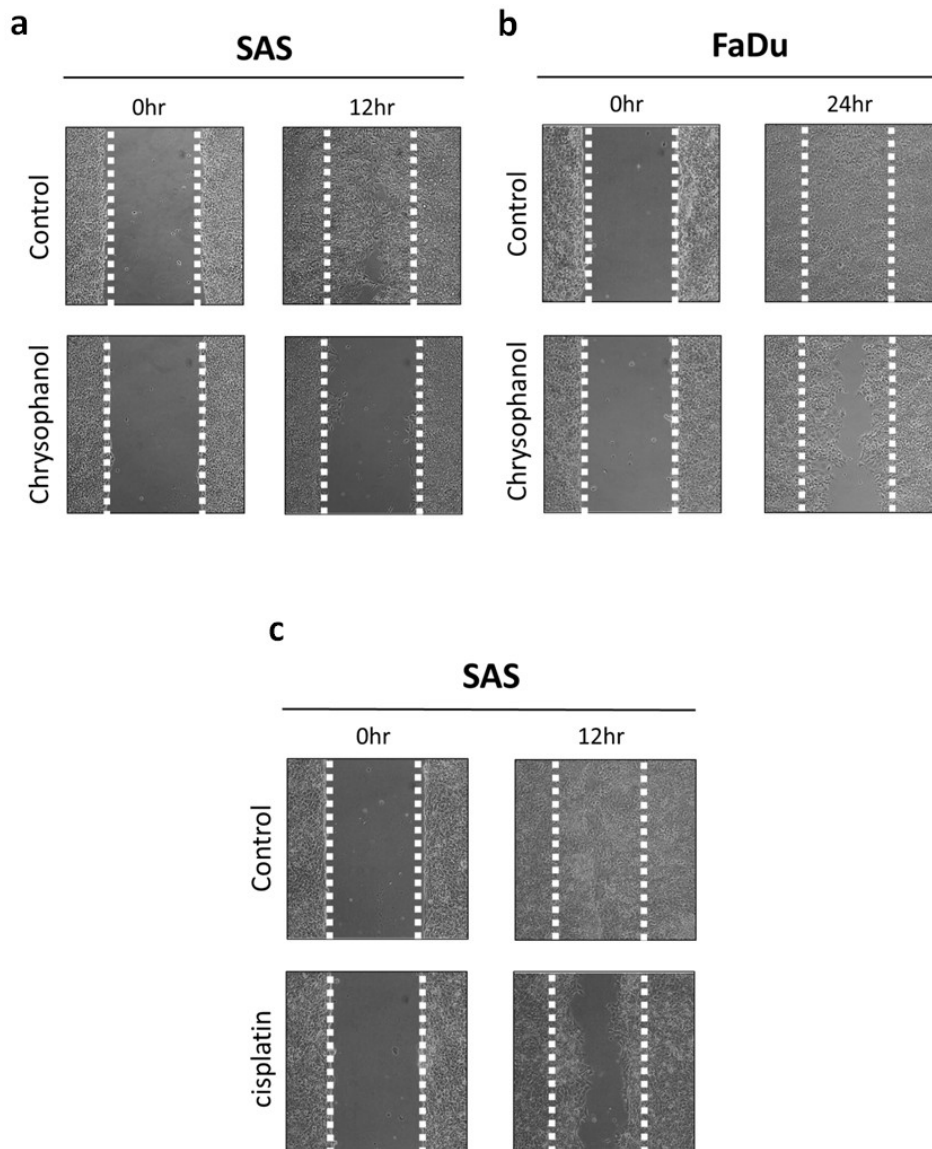
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120 Supplementary figure 7



121 **Supplementary Fig. 7** Chrysophanol inhibits cell migration in a lower concentration than
 122 IC₅₀. Migration was assessed following mechanical wound healing in FaDu (a) and SAS
 123 (b-c). Cell migration was evaluated at 12 h or 24h after treatment with 8 μ M of
 124 chrysophanol (a-b) or 20 μ M of cisplatin (c). Control indicated in absence of chrysophanol or
 125 cisplatin.

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