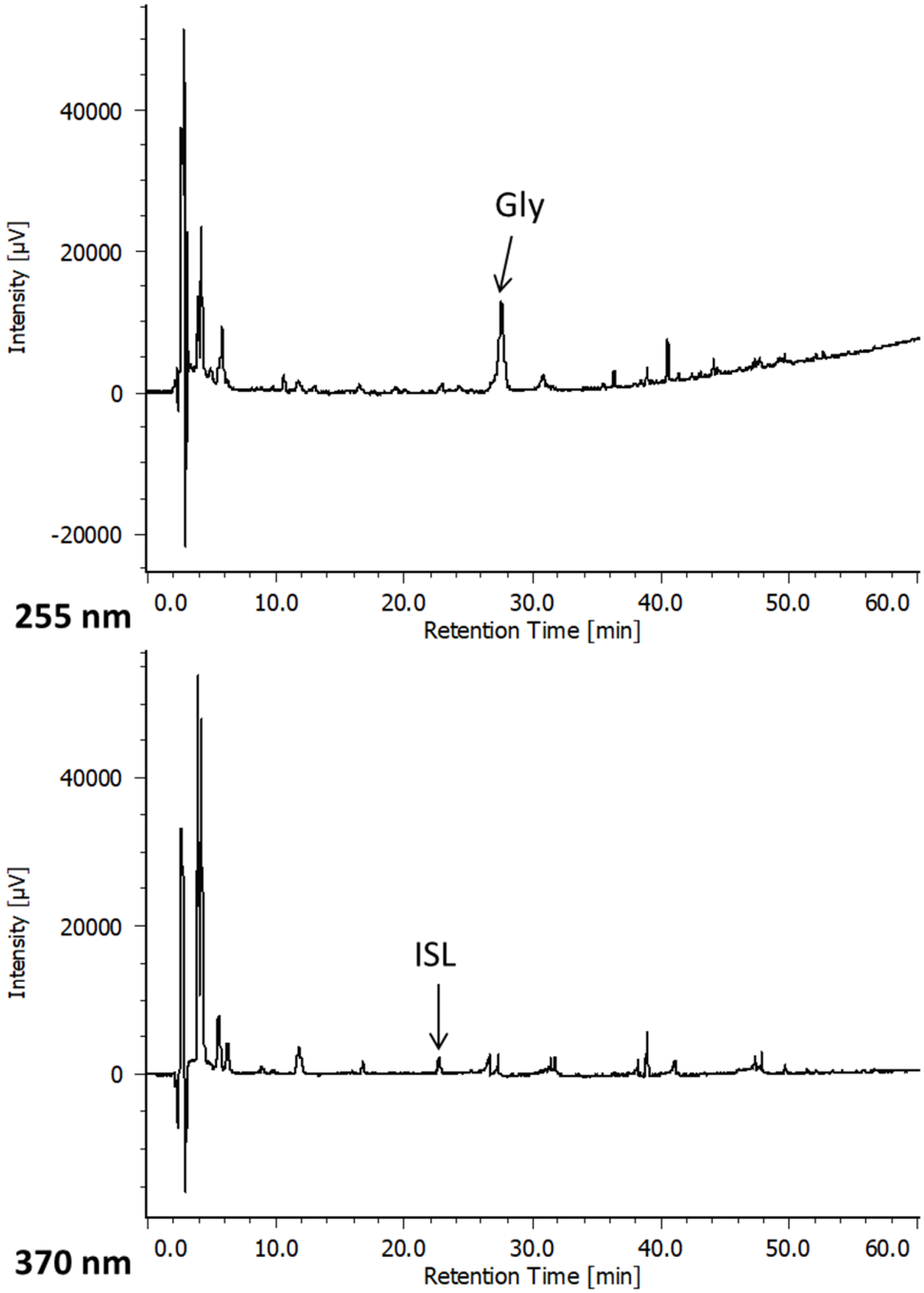
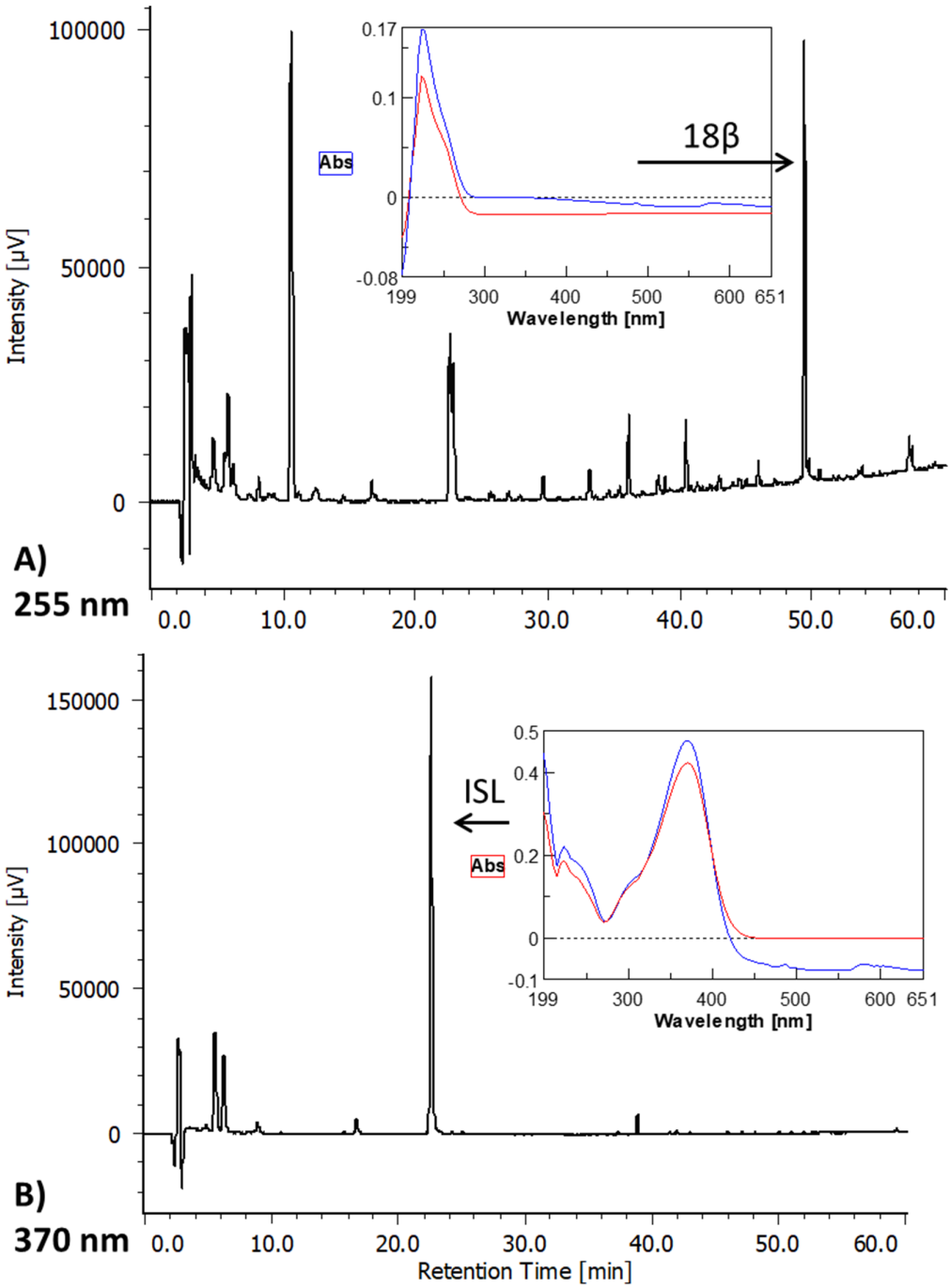
Figure S1: RP-HPLC chromatogram of LHU sample



Chromatograms recorded at 255 nm and 370 nm, respectively. Codenames used are as follows. GLY: glycyrrhizin; ISL: isoliquiritigenin.

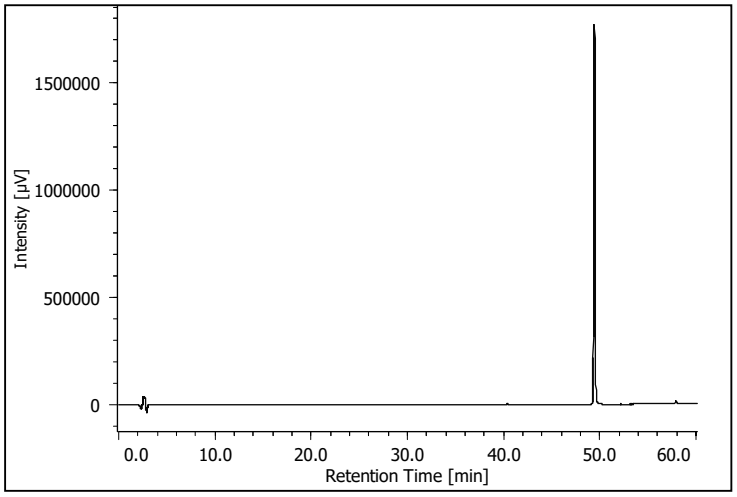
Figure S2: RP-HPLC chromatogram of LHU-H sample



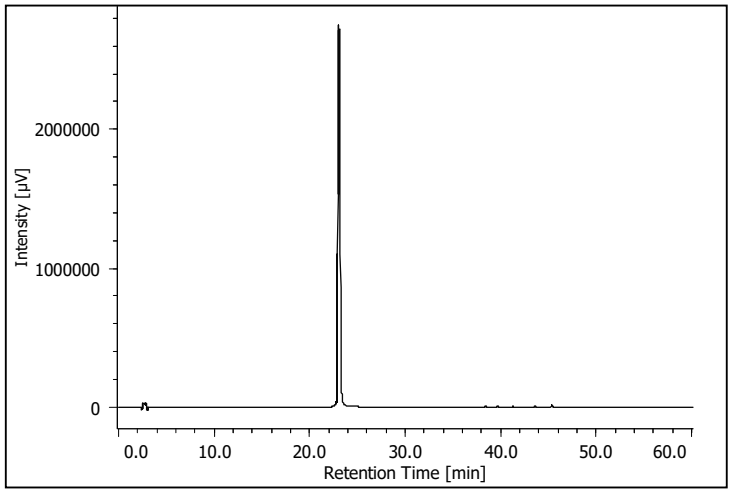
Chromatograms recorded at 255 nm and 370 nm, respectively. Codenames used are as follows. 18β: 18β-glycyrrhetinic acid; ISL: isoliquiritigenin. UV-VIS absorbance spectra of analytes 18β and ISL in native samples were indicated in overlap with their corresponding standard (blue line: standard, red line: analyte in native sample).

Figure S3: 18β, GLY and ISL standards HPLC chromatograms.

18β-glycyrrhetinic acid – 255 nm



Isoliquiritigenin – 370 nm



Glycyrrhizin – 255 nm

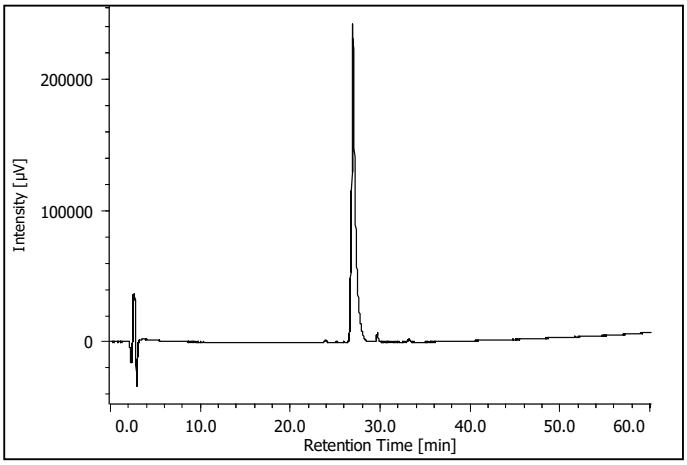


Table S1. Antiproliferative properties of the investigated five extracts of *Glycyrrhiza glabra* L., their hydrolyzed variants and pure main components.

Samples	Conc. [µg/mL]	Cell growth inhibition (%) ± S.E.M[a]					
		HeLa	SiHa	C33A	MCF-7	MDA-MB-231	A2780
LIT1	30	< 20	< 20	< 20	< 20	< 20	< 20
	60	24.62 ± 3.5^{d,e}	< 20	< 20	< 20	< 20	< 20
LIT2	30	< 20	< 20	< 20	< 20	< 20	< 20
	60	< 20	< 20	< 20	< 20	< 20	< 20
LMO	30	< 20	30.80 ± 3.02^{c,d}	< 20	< 20	< 20	< 20
	60	< 20	43.43 ± 1.21^{c}	< 20	< 20	< 20	< 20
LIT3	30	< 20	28.78 ± 2.88^{c,d}	< 20	< 20	< 20	< 20
	60	32.66 ± 2.89^{c,d}	38.26 ± 4.67^{c}	< 20	< 20	< 20	< 20
LHU	30	< 20	21.79 ± 1.18^{d}	< 20	< 20	< 20	< 20
	60	23.19 ± 1.12^{e}	33.67 ± 1.78^{c,d}	< 20	< 20	< 20	< 20
LIT1-H	30	29.37 ± 2.36^{d}	25.43 ± 1.32^{c,d}	30.12 ±3.14^{d}	24.99 ± 1.78^{e}	< 20	< 20
	60	42.50 ± 6.24^{c,d}	38.80 ± 3.89^{c}	49.84 ± 2.22^{c}	34.21 ± 1.51^{d,e}	< 20	48.34 ± 5.75^{c}
LIT2-H	30	38.62 ± 4.35^{c,d}	25.22 ± 1.19^{c,d}	47.41 ± 4.74^{c}	38.55 ± 1.42^{d}	< 20	< 20
	60	38.19 ± 1.28^{c,d}	50.99 ± 3.89^{b,c}	63.04 ± 3.73^{b}	54.91 ± 4.70^{c}	< 20	61.77 ± 8.69^{b,c}
LMO-H	30	33.09 ± 1.03^{c,d}	< 20	56.20 ± 3.84^{b,c}	32.89 ± 2.02^{e}	< 20	< 20
	60	50.39 ± 1.63^{c}	23.89 ± 3.18^{d}	73.44 ± 1.94^{b}	58.33 ± 2.02^{c}	28.00 ± 2.19^{c}	67.95 ± 1.90^{b}
LIT3-H	30	29.18 ± 3.66^{d}	< 20	< 20	< 20	< 20	< 20
	60	39.19 ± 2.13^{c,d}	< 20	53.61 ± 1.79^{b,c}	45.81 ± 1.19^{c,d}	< 20	49.57 ± 1.34^{b,c}
LHU-H	30	37.61 ± 3.26^{c,d}	< 20	< 20	28.18 ± 1.43^{e}	< 20	< 20
	60	46.23 ± 1.52^{c}	38.16 ± 2.00^{c}	66.97 ± 1.03^{b}	62.17 ± 1.28^{c}	< 20	58.83 ± 4.72^{b,c}
ISL[b]	30	79.29 ± 1.51^{b}	83.57 ± 0.75^{a}	99.85 ± 1.72^{a}	82.02 ± 1.49^{b}	79.81 ± 0.67^{b}	94.25 ± 0.68^{a}
	60	96.58 ± 0.15^{a}	95.98 ± 0.41^{a}	96.88 ± 0.15^{a}	95.39 ± 0.33^{a}	92.96 ± 0.70^{a}	97.28 ± 0.38^{a}
GLY[c]	30	< 20	< 20	< 20	< 20	< 20	< 20
	60	< 20	21.35 ± 1.76^{d}	< 20	< 20	< 20	< 20
18β[d]	30	31.63 ± 3.78^{c,d}	< 20	< 20	< 20	< 20	< 20
	60	80.75 ± 2.16^{b}	61.59 ± 5.29^{b}	94.77 ± 0.46^{a}	73.97 ± 2.35^{b}	91.03 ± 0.45^{a}	94.63 ± 0.22^{a}

[a] Mean value from two independent measurements with five parallel wells

[b] isoliquiritigenin

[c] glycyrrhizin

[d] 18β-glycyrrhetinic acid

different letters along columns indicate statistical differences among samples were assessed through Tukey's test ($p < 0.05$).