

Supplementary material

Supplementary Table S1. Maternal parameters (maternal weight, average of food and beverage consumption) during the 14-days acclimation period to ethanol.

| Experimental group | Weight gain (g) | Average food consumption (g) | Average beverage consumption (mL) |
|-------------------------------|-----------------|------------------------------|-----------------------------------|
| WT-Control (<i>n</i> = 6) | -0.47 ± 0.39 | 4.61 ± 0.47 | 9.23 ± 0.96 |
| WT-Ethanol (<i>n</i> = 4) | -0.83 ± 1.24 | 5.46 ± 1.90 | 12.95 ± 0.99 |
| HZ-Control (<i>n</i> = 6) | -0.85 ± 0.40 | 4.36 ± 0.80 | 9.49 ± 1.05 |
| HZ-Ethanol (<i>n</i> = 9) | -0.94 ± 0.30 | 3.77 ± 0.34 | 12.09 ± 0.64 |

The statistical tests applied were Kruskal-Wallis test or ANOVA to compare between all experimental groups. Differences were considered significant at a level of $p < 0.05$: no significant differences were found.

Supplementary Table S2. Maternal body weight at gestational day 1.

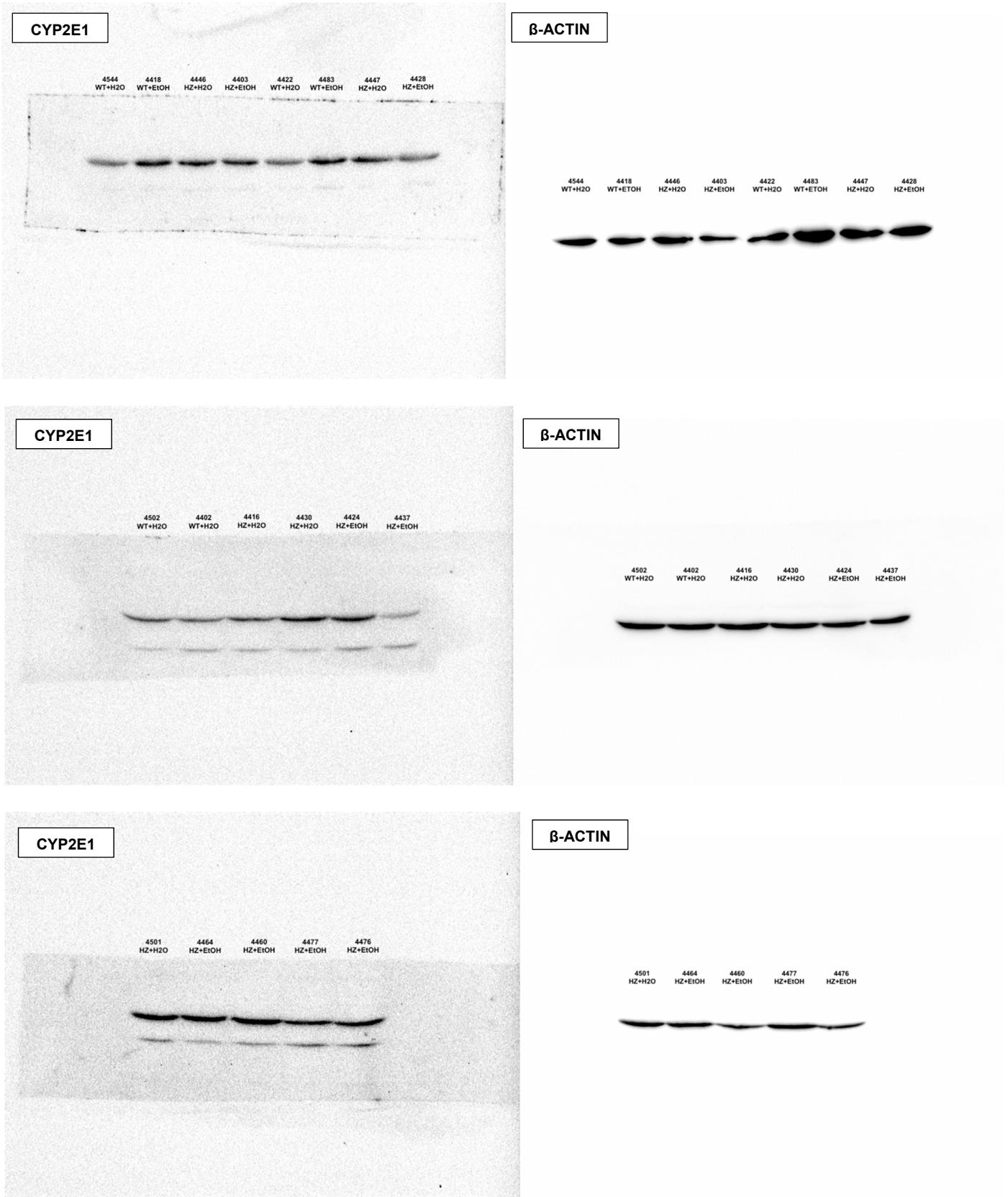
| Experimental group | Maternal body weight (g) |
|----------------------------|-----------------------------|
| WT-Control (<i>n</i> = 6) | 28.10 ± 1.06 |
| WT-Ethanol (<i>n</i> = 4) | 29.58 ± 1.55 |
| HZ-Control (<i>n</i> = 6) | 23.95 ± 0.75 ^{a,b} |
| HZ-Ethanol (<i>n</i> = 9) | 25.39 ± 0.48 ^c |

The statistical test applied was ANOVA to compare between all experimental groups. Differences were considered significant at a level of $p < 0.05$. The letters showed the significant differences founded: ^a $p < 0.05$ HZ-Control vs WT-Control; ^b $p < 0.01$ HZ-Control vs WT-Ethanol; ^c $p < 0.05$ HZ-Ethanol vs WT-Ethanol.

Supplementary Table S3. Densitometry readings obtained from each band in immunoblotting analysis for CYP2E1 and β -actin proteins in liver from pregnant dams.

| Well in gel | Treatment | Mouse | Density CYP2E1 | Density Actin | Actine normalized | Normalized experimental signal |
|-------------|---------------------|----------|----------------|---------------|-------------------|--------------------------------|
| 1 | WT+H ₂ O | 4544 HÍG | 20664.075 | 15977.832 | 0.50 | 41474.13 |
| 2 | WT+EtOH | 4483 HÍG | 29872.832 | 14994.933 | 0.47 | 63886.79 |
| 3 | HZ+H ₂ O | 4447 HÍG | 27043.125 | 18620.66 | 0.58 | 46573.73 |
| 4 | HZ+EtOH | 4428 HÍG | 23872.468 | 11492.296 | 0.36 | 66614.64 |
| 5 | WT+H ₂ O | 4422 HÍG | 18486.125 | 18144.296 | 0.57 | 32672.69 |
| 6 | WT+EtOH | 4418 HÍG | 28168.004 | 32068.539 | 1.00 | 28168.00 |
| 7 | HZ+H ₂ O | 4446 HÍG | 26660.489 | 25129.66 | 0.78 | 34022.07 |
| 8 | HZ+EtOH | 4403 HÍG | 19801.024 | 24328.418 | 0.76 | 26100.75 |
| 1 | WT+H ₂ O | 4502 HÍG | 17562.803 | 28955.024 | 0.88 | 19911.77 |
| 2 | WT+H ₂ O | 4402 HÍG | 13610.953 | 31231.539 | 0.95 | 14306.56 |
| 3 | HZ+H ₂ O | 4416 HÍG | 16934.903 | 32827.66 | 1.00 | 16934.90 |
| 4 | HZ+H ₂ O | 4430 HÍG | 26686.56 | 28990.832 | 0.88 | 30218.43 |
| 5 | HZ+EtOH | 4424 HÍG | 25438.832 | 25181.296 | 0.77 | 33163.40 |
| 6 | HZ+EtOH | 4437 HÍG | 9329.125 | 23920.66 | 0.73 | 12802.88 |
| 1 | HZ+H ₂ O | 4501 HÍG | 30661.631 | 28245.317 | 0.56 | 54761.39 |
| 2 | HZ+EtOH | 4476 HÍG | 29323.61 | 28850.024 | 0.57 | 51273.97 |
| 3 | HZ+EtOH | 4477 HÍG | 31481.803 | 19405.681 | 0.38 | 81838.26 |
| 4 | HZ+EtOH | 4460 HÍG | 22518.974 | 50445.877 | 1.00 | 22518.97 |
| 5 | HZ+EtOH | 4464 HÍG | 27592.288 | 50445.877 | 1.00 | 27592.29 |

Supplementary Figure S1. Immunoblot images for CYP2E1 and β -actin proteins in liver from pregnant dams.



Supplementary Table S4. Densitometry readings obtained from each band in immunoblotting analysis for 4-HNE and β -actin proteins in liver from pregnant dams.

| Well in gel | Treatment | Mouse | Density 4-HNE | Density Actin | Actine normalized | Normalized experimental signal |
|-------------|---------------------|----------|---------------|---------------|-------------------|--------------------------------|
| 1 | WT+H ₂ O | 4544 HÍG | 8229.811 | 10104.276 | 0.35 | 23191.38 |
| 2 | WT+EtOH | 4483 HÍG | 20078.439 | 12693.154 | 0.45 | 45040.41 |
| 3 | HZ+H ₂ O | 4447 HÍG | 17634.347 | 15327.447 | 0.54 | 32759.06 |
| 4 | HZ+EtOH | 4428 HÍG | 15816.782 | 13193.497 | 0.46 | 34135.02 |
| 5 | WT+H ₂ O | 4422 HÍG | 19766.468 | 15694.205 | 0.55 | 35861.76 |
| 6 | WT+EtOH | 4418 HÍG | 29704.61 | 27707.861 | 0.97 | 30525.50 |
| 7 | HZ+H ₂ O | 4446 HÍG | 20111.711 | 22428.74 | 0.79 | 25532.07 |
| 8 | HZ+EtOH | 4403 HÍG | 10899.054 | 28473.569 | 1.00 | 10899.05 |
| 1 | WT+H ₂ O | 4502 HÍG | 8664.882 | 15695.225 | 0.65 | 13342.00 |
| 2 | WT+H ₂ O | 4402 HÍG | 23899.317 | 24167.175 | 1.00 | 23899.32 |
| 3 | HZ+H ₂ O | 4416 HÍG | 19244.489 | 23454.468 | 0.97 | 19829.27 |
| 4 | HZ+H ₂ O | 4430 HÍG | 5870.953 | 11769.225 | 0.49 | 12055.54 |
| 5 | HZ+EtOH | 4424 HÍG | 4151.711 | 6900.861 | 0.29 | 14539.51 |
| 6 | HZ+EtOH | 4437 HÍG | 7305.004 | 14868.518 | 0.62 | 11873.50 |
| 1 | HZ+H ₂ O | 4501 HÍG | 22177.388 | 19536.024 | 0.77 | 28801.86 |
| 2 | HZ+EtOH | 4476 HÍG | 9158.731 | 11826.146 | 0.47 | 19648.91 |
| 3 | HZ+EtOH | 4477 HÍG | 19366.095 | 13305.439 | 0.52 | 36928.29 |
| 4 | HZ+EtOH | 4460 HÍG | 26484.803 | 25371.51 | 1.00 | 26484.80 |
| 5 | HZ+EtOH | 4464 HÍG | 15308.024 | 11942.439 | 0.47 | 32521.64 |

Supplementary Figure S2. Immunoblot images for 4-HNE and β -actin proteins in liver from pregnant dams.

