**High fructose and streptozotocin induced diabetic impairments are mitigated by Indirubin-3-hydrazone via downregulation of PKR pathway in Wistar rats**

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**Suppl. Table 1: AST, HDL and Triglyceride levels in blood serum of rats.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Biochemical parameter** | **Control** | **HF+STZ** | **HF+STZ+IHZ** | **IHZ** |
| **AST** | 10.59 units/L ±0.0821 | 41.15 units/L ±1.11**\*\*\*** | 30.21 units/L ±0.9**%%%** | 13.2 units/L ±0.118 |
| **HDL** | 24 mg/dL ±1.8 | 6 mg/dL ±2.7**\*\*\*** | 11 mg/dL ±1.7**%%%** | 23 mg/dL ±2.91 |
| **Triglycerides** | 13.55 mg/dL ±2.9 | 105.78 mg/dL ±16.59\*\*\* | 90.06 mg/dL ±10.03 | 18.32 mg/dL ±4.2 |

Data presented here is of day 42 of the study. \*\*\*P< 0.001 versus respective control, %%%P<0.001 versus respective HF+STZ Data is expressed as mean ± SD of n=6 animals for each group. AST = Aspartate Transaminase, HDL = high density lipoproteins, HF = High Fructose, STZ = Streptozotocin, IHZ = Indirubin Hydrazone.

**Suppl. Table 2: TG/HDL and TC/HDL RATIOS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Biochemical parameter** | **Control** | **HF+STZ** | **HF+STZ+IHZ** | **IHZ** |
| TG/HDL | 0.54 | 17.6 | 8.18 | 1.5 |
| TC/HDL | 3.7 | 102.1 | 38.2 | 2.73 |

HDL = High-density lipoproteins, TC = total cholesterol, TG = triglyceride

**Suppl. Fig. 1:** Full length western blots ofPKR, JNK, and β-actin protein expression of the main **figure 2d**. Please note that full length membranes with edges could not be provided as the membrane was cut before incubation with the selected antibodies.



**Suppl. Fig. 2:** Full length western blots ofPKR, JNK, and β-actin protein expression of the main **figure 5d**. Please note that full length membranes with edges could not be provided as the membrane was cut before incubation with the selected antibodies.



**Suppl. Fig. 3:** Full length western blots ofPKR**,** JNK, and actin protein expression shown in the main **figure 6h**. Please note that full length membranes with edges could not be provided as the membrane was cut before incubation with the selected antibodies.

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