Human metabolism and basic pharmacokinetic evaluation of AP‑238: A recently emerged acylpiperazine opioid

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**Supplementary Table 1**: Molecular mass, precursor and product ion, retention time, collision energy, limit of detection (LOD) and limit of quantification (LOQ) of AP-238.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Analytes** | **Molecular mass (g/mol)** | **Precursor ion**  **(m/z)** | **Product ion (m/z)** | **Retention time (min)** | **CE (eV)** | **LOD (ng/mL)** | **LOQ (ng/mL)** |
| AP-238 | 286.4 | 287.2 | 91 | 5.1 | 50 | 0.3 | 1.0 |
| 117.1 | 5.1 | 20 |



**Figure 1S.** Extracted-ion chromatogram of AP-238 and metabolites in positive-ionization mode obtained from post-mortem blood (sample n°3). Mass tolerance, 5 ppm.



**Figure 2S.** Extracted-ion chromatogram of AP-238 and metabolites in positive-ionization mode obtained after 2h-incubation with pooled human liver microsomes. Mass tolerance, 5 ppm.