**Introduction:**

In recent years, various products containing synthetic cannabinoids (e.g., JWH-018, UR-144, AKB48, etc.) laced on plant material have been encountered by law enforcement and are smoked for their psychoactive effects. In response to Federal control of these synthetic cannabinoids, a transition to new synthetic cannabinoids laced on plant material has been observed. 5F-MDMB-PICA is a synthetic cannabinoid recently encountered on the designer drug market and has been found laced on plant material and marketed under the guise of herbal incense products.

**Chemistry:**

The chemical structure for 5F-MDMB-PICA is shown below.

5F-MDMB-PICA is classified as an indole. 5F-MDMB-PICA is based on an indole core structure, where the 1- and 3-positions of the indole ring system are substituted. The 1-position of 5F-MDMB-PICA is substituted with a linear five carbon chain terminated with a fluorine (F) atom. The 3-position is substituted with an amide linker, and the nitrogen (N) atom of this linker is further substituted with a 1-methoxy-3,3-dimethyl-1-oxobutan-2-yl group.

**Pharmacology:**

Data from preclinical studies show that 5F-MDMB-PICA binds to and acts as an agonist at the CB1 receptor.

There are no published studies on the safety of 5F-MDMB-PICA for human use.

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1 Chemical name: Methyl 2-(1-(5-fluoropentyl)-1H-indole-3-carboxamido)-3,3-dimethylbutanoate