

FUB-AMB (AMB-FUBINACA; MMB-FUBINACA)

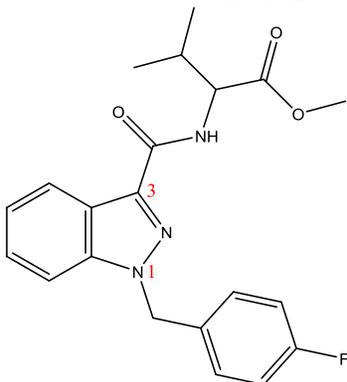
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Introduction:

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. FUB-AMB 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 FUB-AMB¹ is shown below.



FUB-AMB is classified as an indazole. FUB-AMB is based on an indazole core structure, where the 1- and 3-positions of the indazole ring system are substituted. The 1-position of FUB-AMB is substituted with a 4-fluorobenzyl group. The 3-position is substituted with an amide linker, and the nitrogen atom (N) of this linker is further substituted with a 1-methoxy-3-methyl-1-oxobutan-2-yl group.

Pharmacology:

Data from preclinical studies show that FUB-AMB binds to and acts an agonist at the CB1 receptor. In drug discrimination studies in rats, FUB-AMB generalized to delat-9-tetrahydrocannabinol (THC), i.e. produced subjective effects similar to those of THC.

There are no published studies on the safety of FUB-AMB for human use.

Licit Uses:

There are no commercial or medical uses for FUB-AMB.

Illicit Uses:

FUB-AMB has been encountered in numerous synthetic cannabinoid products that are smoked for their psychoactive effects.

User Population:

Information on user population in the U.S. is limited. FUB-AMB abuse is not monitored by any national drug abuse surveys. Poison control centers continue to report adverse health effects in response to the abuse of synthetic cannabinoids and this abuse is both a public health and safety concern. Serious adverse effects including death have been reported following the use of FUB-AMB.

Illicit Distribution:

The National Forensic Laboratory Information System (NFLIS), a system that collects drug analysis information from state and local forensic laboratories, contain 21,107 reports for FUB-AMB between 2014 and 2018.

Control Status

FUB-AMB is a Schedule I controlled substance under the Federal Controlled Substances Act.

Comments and additional information are welcomed by the Drug and Chemical Evaluation Section; Fax 202-353-1263, telephone 202-307-7183, or E-mail DPE@usdoj.gov.

¹ Chemical name: Methyl 2-(1-(4-fluorobenzyl)-1H-indazole-3-carboxamido)-3-methylbutanoate