

# 2F-2OXO-PCM - A new synthetic hallucinogen identified in recreational drug market

Public Awareness Drug Alert

JUNE 2024

**Purpose:** The purpose of this announcement is to notify public health and safety, law enforcement, first responders, clinicians, and all other related communities about new information surrounding the emergent novel synthetic hallucinogen **2F-2OXO-PCM (also referred to as "2-Fluorodeschloroketamine")** detected in gummies labelled as MDMA gummies. This announcement also serves to raise awareness amongst the public.

## Background

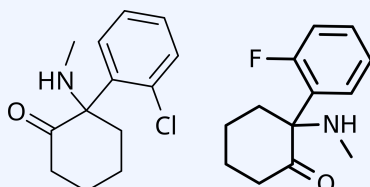
Synthetic hallucinogens are chemically manufactured drugs, that mimic the effects of traditional hallucinogens by acting primarily on serotonin (5-HT<sub>2A</sub>) or N-methyl-D-aspartate (NMDA) receptors in the brain. These substances are typically categorized into analogues of ketamine, PCP, and LSD, and are distributed in various forms such as powders, capsules, or tablets.

Traditional hallucinogens in the arylcyclohexamine subclass include analogues of PCP and ketamine known for their anesthetic and dissociative properties. These drugs can induce states of anesthesia and dissociation, leading to altered perception and detachment from reality.

Recreational consumption of synthetic hallucinogens can lead to significant adverse effects, which include hyperthermia, dehydration, seizures, hallucinations, serotonin syndrome, and cardiac symptoms.

The severe adverse effects associated with synthetic hallucinogens highlight the dangers of these substances, particularly when used recreationally. The risk of serious outcomes, including death, underscores the importance awareness and caution regarding the consumption of these drugs.

Structures of ketamine (right) and 2F-2OXO-PCM (left)



## Case

The case in question regards the sale of **MDMA gummies** through *Wolt* and their delivery to the person's doorstep. The ease of obtaining such products makes the situation even more worrying.



**Photo 1:** The MDMA gummies packet is shown on the right.

A packet of MDMA gummies was submitted to the Forensic Analysis Laboratory for analysis after being ordered through *Wolt* and delivered to the person at home.

Analysis of the contents of this packet which included 2 yellow gummies revealed the presence of **2-Fluorodeschloroketamine**. This ingredient is not listed on the list of ingredients. In addition the gummies also contain theobromine (a heart stimulant) and muscimol (a potent psychoactive compound found in certain mushrooms).