



EU EARLY WARNING SYSTEM FORMAL NOTIFICATION

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| Date issued | 30 June 2020 | RCS ID | EU-EWS-RCS-FN-2020-0018 |
| Issued by | EMCDDA | Transmitted by | Action on New Drugs Sector, EMCDDA |
| Subject | Formal notification of 5-(cyclobutylmethyl)-2-(1-methyl-1-phenyl-ethyl)pyrido[4,3- <i>b</i>]indol-1-one (Cumyl-CB-MeGaClone) by Hungary as a new psychoactive substance under the terms of Regulation (EU) 2017/2101 | | |

1. Read me first

This document provides formal notification of the analytical identification of 5-(cyclobutylmethyl)-2-(1-methyl-1-phenyl-ethyl)pyrido[4,3-*b*]indol-1-one (Cumyl-CB-MeGaClone) for the first time in Europe.

Please report any additional data you have on this substance to: ews@emcdda.europa.eu

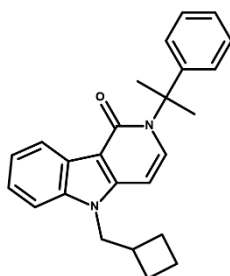
2. Data use restrictions

As with all formal notifications issued by the EU EWS remember that they may contain information that could be regarded as sensitive. Should you provide some of the information in this notification to other groups we would ask that you exercise your best judgment on what information needs to be provided. If you have any questions in this respect, please contact us.

3. Names of substance and other identifiers

- IUPAC name: 5-(cyclobutylmethyl)-2-(1-methyl-1-phenyl-ethyl)pyrido[4,3-*b*]indol-1-one
- Chemical names: 5-(cyclobutylmethyl)-2-(2-phenylpropan-2-yl)-2,5-dihydro-1*H*-pyrido[4,3-*b*]indol-1-one; 5-(cyclobutylmethyl)-2-cumyl-2,5-dihydro-1*H*-pyrido[4,3-*b*]indol-1-one
- Common name: Cumyl-CB-MeGaClone
- Other names: Cumyl-CBMeGaClone; CUMYL-Cb-MeGaClone; cumyl-cyclobutylmethyl-gamma-carbolinone
- Chemical formula: C₂₅H₂₆N₂O
- Molecular weight: 370.49
- CAS Registry number: not registered
- InChIKey: VOCGZWPYRQJUMY-UHFFFAOYSA-N

Molecular structure



4. Substance classification

Synthetic cannabinoid

5. Detection

Type: Seizure

Case Report identifier: EDND-CR-2020-312

Details: Cumyl-CB-MeGaClone was identified in 0.46 grams of plant/herbal material seized by Hungarian Police, on 17 March 2020.

The substance was analytically confirmed using GC-MS and NMR by the Hungarian Institute for Forensic Sciences, Drug Investigation Department.

Other detections:

Cumyl-CB-MeGaClone was also identified in 4 grams of plant/herbal material seized by State Police, Schleswig-Holstein, in Germany, on 1 March 2020.

The substance was analytically confirmed using GC-MS, LC-MS, FTIR and NMR by the EU-project ADEBAR plus. The base form of Cumyl-CB-MeGaClone was identified in the seized sample.

6. Chemistry and Analysis

Chemical classification: azacyclics; indoles, carbazoles

Cumyl-CB-MeGaClone, also known as cumyl-cyclobutylmethyl-gamma-carbolinone, is a synthetic cannabinoid containing a gamma-carboline-1-one core, with a cumyl linked group and a cyclobutylmethyl moiety. There is no linker, such as carboxamide present in the structure.

Cumyl-CB-MeGaClone is structurally related to Cumyl-CH-MeGaClone, formally notified in 2018. It differs by replacement of the cyclohexylmethyl moiety, present in Cumyl-CH-MeGaClone, with cyclobutylmethyl.

Cumyl-CB-MeGaClone also shares structural similarities with CUMYL-PeGACLONE, formally notified in 2017. It differs by replacement of the pentyl chain, present in CUMYL-PeGACLONE, with the cyclobutylmethyl moiety.

7. Pharmacology and toxicology

Pharmacological classification: cannabinoid

There is no information available on the pharmacology and toxicology of Cumyl-CB-MeGaClone. Based on its structural similarity with other synthetic cannabinoids, such as Cumyl-CH-MeGaClone and CUMYL-PeGACLONE, it is expected to act as a cannabinoid receptor agonist.

8. Further information

Further information on this substance is available on the EDND profile:
<https://ednd2.emcdda.europa.eu/ednd/substanceProfiles/1106>

9. Acknowledgements

The Hungarian National Focal Point, Hungarian Police, the Hungarian Institute for Forensic Sciences, Drug Investigation Department, the German National Focal Point, State Police-Schleswig-Holstein and the EU-project ADEBAR plus are kindly acknowledged for the information and analytical data provided.

10. Attachments

None.

11. References

None.