



EU EARLY WARNING SYSTEM FORMAL NOTIFICATION

Date issued	26 October 2022	RCS ID	EU-EWS-RCS-FN-2022-0032
Issued by	EMCDDA	Transmitted by	Action on New Drugs Sector, EMCDDA
Subject	Formal notification of pent-4-en-1-yl 3,3-dimethyl-2-(1-(pent-4-en-1-yl)-1 <i>H</i> -indazole-3-carboxamido)-butanoate (4en-PDMB-4en-PINACA) as a new psychoactive substance under the terms of Regulation (EC) No 1920/2006 and Council Framework Decision 2004/757/JHA		

1. Read me first

This document provides formal notification of the analytical identification of pent-4-en-1-yl 3,3-dimethyl-2-(1-(pent-4-en-1-yl)-1*H*-indazole-3-carboxamido)-butanoate (4en-PDMB-4en-PINACA) for the first time in Europe.

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

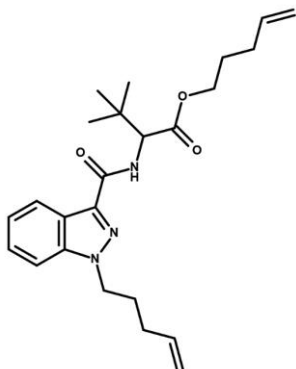
2. Data use restrictions

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: pent-4-en-1-yl 3,3-dimethyl-2-(1-(pent-4-en-1-yl)-1*H*-indazole-3-carboxamido)-butanoate
- Chemical names: pent-4-enyl 3,3-dimethyl-2-[(1-pent-4-enylindazole-3-carbonyl)amino]butanoate
- Common name: 4en-PDMB-4en-PINACA
- Chemical formula: C₂₄H₃₃N₃O₃
- Molecular weight: 411.55
- CAS Registry number: not registered.
- InChIKey: CQZNGBBRCLQTI-UHFFFAOYSA-N

Molecular structure



4. Substance classification

Synthetic cannabinoid

5. Detection

Type: Seizure

6. Chemistry and Analysis

Chemical classification: azacyclic; azole; indazole

The synthetic cannabinoid 4en-PDMB-4en-PINACA contains a 'pent-4-en-1-yl dimethylbutanoate' (4en-PDMB) linked group, a pent-4-ene (4en-P) tail, an indazole (INA) core and a carboxamide linker (CA). This is the first cannabinoid reported to the EU EWS to contain a pent-4-en-1-yl dimethylbutanoate (4en-PDMB) linked group.

It is structurally related to the internationally controlled synthetic cannabinoid MDMB-4en-PINACA (Schedule II of the United Nations 1971 Convention on Psychotropic Substances) but differs in the replacement of the linked group which is 4en-PDMB rather than dimethyl methyl butanoate (MDMB). Structurally, 4en-PDMB-4en-PINACA also shares similarities with ADB-4en-P-5Br-INACA, formally notified in 2022, and ADB-4en-PINACA and ABO-4en-PINACA, formally notified in 2021.

The substance contains a stereogenic centre and therefore two possible enantiomers of 4en-PDMB-4en-PINACA may exist.

7. Pharmacology and toxicology

Pharmacological classification: cannabinoid

There is no information available on the pharmacology and toxicology of 4en-PDMB-4en-PINACA. Based on its structural similarity with other synthetic cannabinoids, such as MDMB-4en-PINACA, 4en-PDMB-4en-PINACA is expected to act as a cannabinoid receptor agonist.

8. References

None.