



## EU EARLY WARNING SYSTEM FORMAL NOTIFICATION

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Date issued	12 January 2023	RCS ID	EU-EWS-RCS-FN-2023-0002
Issued by	EMCDDA	Transmitted by	Action on New Drugs Sector, EMCDDA
Subject	Formal notification of 2-(2-bromo-3,4,5-trimethoxyphenyl)ethanamine (2-bromomescaline) as a new psychoactive substance under the terms of Regulation (EC) No 1920/2006 and Council Framework Decision 2004/757/JHA		

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### 1. Read me first

This document provides formal notification of the analytical identification of 2-(2-bromo-3,4,5-trimethoxyphenyl)ethanamine (2-bromomescaline) for the first time in Europe.

Please report any additional data you have on this substance to: [ews@emcdda.europa.eu](mailto:ews@emcdda.europa.eu)

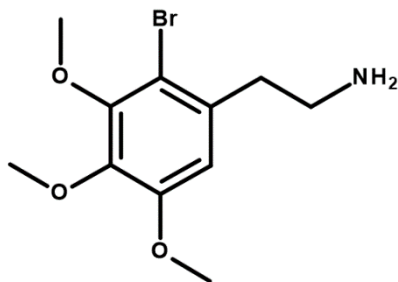
### 2. Data use restrictions

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: 2-(2-bromo-3,4,5-trimethoxyphenyl)ethanamine
- Chemical names: 2-(2-bromo-3,4,5-trimethoxyphenyl)ethan-1-amine; 2-(2-bromo-3,4,5-trimethoxy-phenyl)ethanamine; 2-bromo-3,4,5-trimethoxybenzeneethanamine
- Common name: 2-bromomescaline
- Other names: 2-BM; 2-Br-M
- Chemical formula:  $C_{11}H_{16}BrNO_3$
- Molecular weight: 290.15
- CAS Registry number: 37015-19-3
- InChIKey: UXQBKANLBLUVMK-UHFFFAOYSA-N

Molecular structure



#### 4. Substance classification

Phenethylamine

#### 5. Detection

Type: Collected sample

#### 6. Chemistry and Analysis

Chemical classification: arylalkylamine; phenylalkylamine; phenethylamine

2-Bromomescaline is a ring-substituted phenethylamine and is structurally related to the internationally controlled phenethylamine 2C-B (Schedule II of the 1971 United Nations Single Convention on Psychotropic Substances). 2-Bromomescaline differs from 2C-B due to the presence of an additional methoxy group on the phenyl ring and due to differing positions of the methoxy groups and the bromine on the phenyl ring. 2-Bromomescaline is the bromo derivative of mescaline (3,4,5-trimethoxyphenethylamine) which is also under international control (Schedule I of the 1971 United Nations Single Convention on Psychotropic Substances).

2-Bromomescaline shares structural similarities with AL – allylescaline, escaline, proscaline and methallylescaline, all formally notified in 2013.

The preparation of 2-bromomescaline has been described in the literature [1].

#### 7. Pharmacology and toxicology

Pharmacological classification: hallucinogen

There is limited information available on the pharmacology and toxicology of 2-bromomescaline. Based on its chemical structure and on its chemical similarity to 2C-B and mescaline, 2-bromomescaline is expected to act on the serotonin receptors and to produce hallucinogenic effects.

#### 8. References

[1] Pecherer B, et al. A novel synthesis of aromatic methoxy and methylenedioxy substituted 2, 3, 4, 5-tetrahydro-1H-3-benzazepines. *Journal of Heterocyclic Chemistry*. 1972;9(3):609-16.