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2,5-DIMETHOXY-4-(n)-PROPYLTHIOPHENETHYLAMINE
(Street Names: 2C-T-7, Blue Mystic, T7, Beautiful, Tripstay, Tweety-Bird Mescaline)

Introduction:

2,5-dimethoxy-4-(n)-propylthiophenethylamine (2C-T-7) is a synthetic hallucinogen. The abuse of 2C-T-7 has been connected to death cases.

Licit Uses:

2C-T-7 is not approved for marketing by the Food and Drug Administration and is not sold legally in the United States.

Chemistry:

2,5-dimethoxy-4-(n)-propylthiophenethylamine (2C-T-7), is a phenethylamine hallucinogen that is structurally related to the schedule I phenethylamine hallucinogens, 4-bromo-2,5-dimethoxyphenethylamine (2C-B, Nexus) and mescaline.

Pharmacology:

Based on structural similarly of 2C-T-7 to 2C-B, Nexus) and mescaline, the pharmacological profile of 2C-T-7 is expected to be qualitatively similar to these hallucinogens.

Drug discrimination studies in animals indicate that 2C-T-7 produces discriminative stimulus effects similar to those of several schedule I hallucinogens. In rats trained to discriminate 4-methyl-2,5-dimethoxy-amphetamine (DOM), 2C-T-7 fully substituted for DOM and was slightly less potent than 2C-B in eliciting DOM- like effects. 2C-T-7 was also shown to share some commonality with LSD; it partially substituted for LSD up to doses that severely disrupted performance in rats trained to discriminate LSD. 2C-T-7 can also function as a discriminative stimulus in rats. Rats readily learned to discriminate 2C-T-7 from saline. When either 2C-B or LSD was substituted for 2C-T-7, each elicited 2C-T-7- like discriminative stimulus effects.

The subjective effects of 2C-T-7, like those of 2C-B and DOM, appear to be mediated through central serotonin receptors. 2C-T-7 selectively binds to the 5- HT receptor system.

According to one published case report, 2C-T-7 abuse has been associated with convulsions in humans.

Illicit Uses:

2C-T-7 is abused orally and intranasally for its hallucinogenic effects. Information from a website about a variety of illicit drugs has suggested that 2C-T-7 produce effects similar to those of 2C-B. This information is based on individuals self-administering 2C-T-7 illicitly and self-reporting the effects. Its effects include visual hallucination, mood lifting, sense of well-being, emotionality, volatility, increased appreciation of music, and psychedelic ideation. The oral and intranasal doses

recommended on this website are 10-50 mg and 5-10 mg, respectively. 2C-T-7's onset and duration of actions are dependent upon the route of administration. Following oral administration, onset and duration of effects are 1 to 2.5 hours and 5 to 7 hours, respectively. After intranasal administration, the onset of action and duration of effects are 5 to 15 minutes and 2 to 4 hours, respectively.

User Population:

Young adults are the main abusers of 2C-T-7.

Illicit Distribution:

The DEA's National Forensic Laboratory Information System (NFLIS) Drug database collects scientifically verified data on drug items and cases submitted to and analyzed by participating federal, state, and local forensic laboratories. The first encounter of 2C-T-7 reported to NFLIS-Drug occurred in 2001. A total of 71 reports of 2C-T-7 have been submitted to NFLIS-Drug by participating federal, state, and local forensic laboratories. According to NFLIS-Drug, law enforcement officials have encountered 2C-T-7 in 16 states. The state with the highest number of reports, 30 of the 71 total reports, is Florida.

2C-T-7 can be purchased over the Internet. Sales through this Internet site were thought to be the major sources of 2C- T-7 in the United States. One clandestine laboratory was identified in Las Vegas, Nevada as the supplier of 2C-T-7. 2C-T-7 has been sold under the street names Blue Mystic, T7, Beautiful, Tweety-Bird Mescaline or Tripstay.

Control Status:

2C-T-7 has been placed in schedule I of the Controlled Substances Act.

Comments and additional information are welcomed by the Drug and Chemical Evaluation Section. Fax 571-362-4250, Telephone 571-362-3249, or Email DPE@dea.gov.