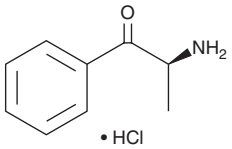
PRODUCT INFORMATION

(–)-(S)-Cathinone (hydrochloride) (exempt preparation)

Item No. 15655

CAS Registry No.: 72739-14-1
Formal Name: 2-amino-1-phenyl-1-propanone, monohydrochloride
MF: $C_9H_{11}NO \bullet HCl$
FW: 185.7
Purity: ≥98%
UV/Vis.: λ_{max}: 247 nm
Supplied as: A solution in methanol
Storage: -20°C
Stability: ≥3 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Cathinone, the main psychoactive alkaloid from the khat plant (*C. edulis*), is a potent central stimulant and a naturally occurring analog of amphetamine. (–)-(S)-Cathinone is several times more potent than its (+)-isomer, and its absolute stereochemistry is identical to that of (+)-(S)-amphetamine.[1] Like amphetamine, (–)-(S)-cathinone is a potent releaser of norepinephrine and dopamine from their intracellular stores.[2,3] With an ED_{50} value of 0.42 µmol/kg, (–)-(S)-cathinone produces amphetamine-like stimulus effects in rats trained to discriminate 1 mg/kg of (+)-(S)-amphetamine from vehicle.[1] This product is intended for research and forensic applications.

References

1. Dal Cason, T.A., Young, R., and Glennon, R.A. Cathinone: An investigation of several N-alkyl and methylenedioxy-substituted analogs. *Pharmacol. Biochem. Be.* **58(4)**, 1109-1116 (1997).
2. Kalix, P. and Glennon, R.A. Further evidence for an amphetamine-like mechanism of action of the alkaloid cathinone. *Biochem. Pharmacol.* **35(18)**, 3015-3019 (1986).
3. Glennon, R.A. and Liebowitz, S.M. Serotonin receptor affinity of cathinone and related analogues. *J. Med. Chem.* **25(4)**, 393-397 (1982).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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