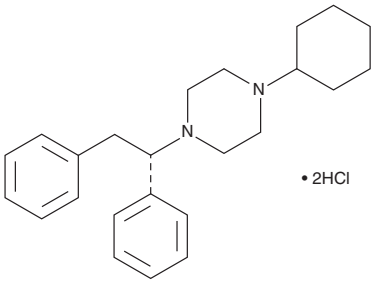
PRODUCT INFORMATION

(S)-(+)-MT-45 (hydrochloride)

Item No. 15128

CAS Registry No.: 52694-54-9
Formal Name: (S)-1-cyclohexyl-4-(1,2-diphenylethyl)-piperazine, dihydrochloride
MF: $C_{24}H_{32}N_2 \bullet 2HCl$
FW: 421.5
Purity: ≥98%
Chiral Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Description

(S)-(+)-MT-45 (hydrochloride) (Item No. 15128) is an analytical reference standard categorized as an opioid.[1] MT-45 is a novel synthetic opioid that is structurally unrelated to most opioids but has analgesic activity similar to morphine (Item Nos. 15464 | ISO60147) in animal models. (S)-(+)-MT-45 is an enantiomer of MT-45 that also has analgesic activity similar to morphine and is more potent than (R)-(–)-MT-45 (Item No. 15127).[2] (S)-(+)-MT-45 is regulated as a Schedule I compound in the United States. This product is intended for research and forensic applications.

References

1. Baumann, M.H., Majumdar, S., Le Rouzic, V., *et al.* Pharmacological characterization of novel synthetic opioids (NSO) found in the recreational drug marketplace. *Neuropharmacology* **134(Pt A)**, 101-107 (2018).
2. Fujimura, H., Tsurumi, K., Nozaki, M., *et al.* Analgesic activity and opiate receptor binding of 1-cyclohexyl-4-(1,2-diphenylethyl)piperazine. *Jpn. J. Pharmacol.* **28(3)**, 505-506 (1978).

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