PRODUCT INFORMATION



Thiophene fentanyl (hydrochloride)

Item No. 22802

CAS Registry No.: 2306823-39-0

Formal Name: N-phenyl-N-[1-(2-phenylethyl)-4-

piperidinyl]-2-thiophenecarboxamide,

monohydrochloride

Synonyms: Thiofuranyl fentanyl, 2-Thiofuranyl

fentanyl, 2-Thiophenoyl fentanyl

MF: C24H26N2OS • HCI

427.0 FW: **Purity:** ≥98% UV/Vis.: λ_{max} : 246 nm Supplied as: A crystalline solid

Storage: -20°C Stability: ≥5 years

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



Thiophene fentanyl (hydrochloride) (Item No. 22802) is an analytical reference standard categorized as an opioid.^{1,2} Thiophene fentanyl induces generalized responses in rats trained to discriminate morphine from saline.³ Thiophene fentanyl is regulated as a Schedule I compound in the United States. This product is intended for research and forensic applications.

References

- 1. Eshleman, A.J., Nagarajan, S., Wolfrum, K.M., et al. Affinity, potency, efficacy, selectivity, and molecular modeling of substituted fentanyls at opioid receptors. Biochem. Pharmacol. 182, 114293 (2020).
- Varshneya, N.B., Walentiny, D.M., Moisa, L.T., et al. Opioid-like antinociceptive and locomotor effects of emerging fentanyl-related substances. Neuropharmacology 151, 171-179 (2019).
- Eneanya, C., Walker, T., Tella, S., et al. Morphine drug discrimination: A behavioral model to assess novel synthetic opioid substances. FASEB J. 33(S1), 663.2-663.2 (2019).

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

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

subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information Buyer agrees to purchase the m can be found on our website.

Copyright Cayman Chemical Company, 06/16/2023

• HCI

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM