PRODUCT INFORMATION



Fentanyl

Item No. 23580

CAS Registry No.: 437-38-7

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

piperidinyl]-propanamide

MF: $C_{22}H_{28}N_2O$ FW: 336.5 **Purity:** ≥98%

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.

Description

Fentanyl (Item No. 23580) is an analytical reference standard categorized as an opioid. 1,2 It is more effective than morphine (Item No. ISO60147) at reducing pain but is also more lethal.² Fentanyl is highly abused and is associated with many fatal overdoses.³ Fentanyl is regulated as a Schedule II compound in the United States. This product is intended for research and forensic applications.

References

- 1. Burns, S.M., Cunningham, C.W., and Mercer, S.L. DARK classics in chemical neuroscience: Fentanyl. ACS Chem. Neurosci. 9(10), 2428-2437 (2018).
- Raynor, K., Kong, H., Chen, Y., et al. Pharmacological characterization of the cloned κ-, δ-, and μ-opioid receptors. Mol. Pharm. 45(2), 330-334 (1994).
- 2. Higashikawa, Y. and Suzuki, S. Studies on 1-(2-phenethyl)-4-(N-propionylanilino)piperidine (fentanyl) and its related compounds. VI. Structure-analgesic activity relationship for fentanyl, methyl-substituted fentanyls and other analogues. Forensic Toxicol. 26(1), 1-5 (2008).
- 3. Armenian, P., Vo, K.T., Barr-Walker, J., et al. Fentanyl, fentanyl analogs and novel synthetic opioids: A comprehensive review. Neuropharmacology 3908(17), 30484-30487 (2017).

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

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

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