PRODUCT INFORMATION



Despropionyl ortho-Fluorofentanyl

Item No. 20126

CAS Registry No.: 864422-91-3

Formal Name: N-(2-fluorophenyl)-1-(2-phenylethyl)-4-

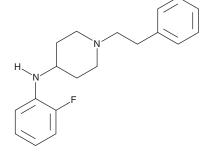
piperidinamine

Synonyms: ortho-fluoro 4-ANPP, Despropionyl o-FF,

Despropionyl o-Fluorofentanyl,

Despropionyl ortho-FF

MF: C₁₉H₂₃FN₂ FW: 298.4 **Purity:** ≥98% Supplied as: A neat solid -20°C Storage: Stability: ≥6 years



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

Description

Despropionyl ortho-fluorofentanyl (Item No. 20126) is an analytical reference material that is structurally similar to known opioids. Despropionyl ortho-fluorofentanyl is a precursor to ortho-fluorofentanyl, ortho-fluorobutyryl fentanyl, and ocfentanil and a potential impurity in illicit preparations of this class of compounds. It is also a potential metabolite of these compounds based on the published metabolism of fentanyl.¹⁻⁵ At the time despropionyl ortho-fluorofentanyl (Item No. 20126) was made available for purchase, specific metabolism data had not been published. Contact us if updated information on this molecule is now available. This product is intended for research and forensic applications.

This product is qualified as a Reference Material that has been manufactured and tested to ISO/IEC 17025 and ISO 17034 international standards.

References

- 1. Pease, J.P., LePine, A.J., and Smith, C.M. Methods for preparing fentanyl and fentanyl intermediates. Cedarburg Pharmaceuticals, Inc. US 2013/0281702 A1 (2013).
- 2. Watanabe, S., Vikingsson, S., Roman, M., et al. In vitro and in vivo metabolite identification studies for the new synthetic opioids acetylfentanyl, acrylfentanyl, furanylfentanyl, and 4-fluoro-isobutyrylfentanyl. AAPS J. 19(4), 1102-1122 (2017).
- 3. Labroo, R.B., Paine, M.F., Thummel, K.E., et al. Fentanyl metabolism by human hepatic and intestinal cytochrome P450 3A4: Implications for interindividual variability in disposition, efficacy, and drug interactions. Drug Metab. Dispos. 25(9), 1072-1079 (1997).
- 4. Melent'ev, A.B., Kataev, S.S., and Dvorskaya, O.N. Identification and analytical properties of acetyl fentanyl metabolites. J. Anal. Chem. 70(2), 216-224 (2015).
- 5. Steuer, A.E., Williner, E., Staeheli, S.N., et al. Studies on the metabolism of the fentanyl-derived designer drug butyrfentanyl in human in vitro liver preparations and authentic human samples using liquid chromatography-high resolution mass spectrometry (LC-HRMS). Drug Test Anal. 9(7), 1085-1092 (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

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