

NITAZENE ANALOG PANEL



What are Nitazene Analogs?

Nitazenes are a subclass of novel psychoactive substances (NPS) based on a 2-benzylimidazole chemical structure, which function as mu opioid receptor agonists in the body. Historically, etonitazene was the first compound synthesized of the class in 1957 and researched as a veterinary anesthetic. After the United States federal government moved to control all fentanyl analogs as fentanyl-related substances, isototonitazene was the first to emerge on the street drug market in 2019. Substitutions to the etonitazene chemical structure, especially at the 5-nitro and para-benzyl moieties, are important for opioid receptor activity, and these substitutions have led to compounds such as flunitazene, metonitazene, N-pyrrolidino etonitazene, and protonitazene. Animal studies estimate that these compounds are 100-1,000 times more potent as an analgesic as morphine. Limited pharmacokinetic studies have been published, but metabolites may have pharmacological activity. Many of these compounds are detected alongside fentanyl.

ORDER CODE: 13910: Nitazene Analog Panel			
SAMPLE TYPE: Blood			
COMPOUND NAME	REPORTING LIMIT	COMPOUND NAME	REPORTING LIMIT
Butonitazene	1.0 ng/mL	Metodesnitazene	1.0 ng/mL
Ethyleneoxynitazene	1.0 ng/mL	Metonitazene	1.0 ng/mL
Etodesnitazene	1.0 ng/mL	N-Desethyl Isotonitazene	1.0 ng/mL
Etonitazene	1.0 ng/mL	N-Pyrrolidino Etonitazene	1.0 ng/mL
Flunitazene	1.0 ng/mL	N-Pyrrolidino Metonitazene	1.0 ng/mL
Isotodesnitazene	1.0 ng/mL	N-Pyrrolidino Protonitazene	1.0 ng/mL
Isotonitazene	1.0 ng/mL	Protonitazene	1.0 ng/mL

Screening for Nitazene Analogs is included with Analyte Assurance™, a feature of Axis' Comprehensive Panels.

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