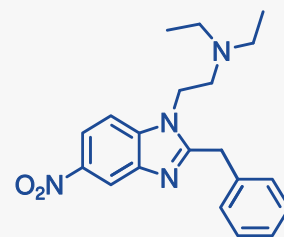


Anti-Nitazenes rabbit recombinant monoclonal antibody



Nitazenes are a group of highly potent synthetic opioids originally developed in the 1950s but never approved for medical use due to dangerous side effects and severe toxicity. They act as strong μ -opioid receptor agonists, and several analogues can equal or exceed the potency of fentanyl. Since 2019, nitazenes have reappeared in illicit markets, often found in powders, counterfeit pills, or mixed with fentanyl, heroin, or cocaine, usually without users' knowledge. They pose a high risk of fatal respiratory depression, dependence, withdrawal and overdoses. Many nitazenes are increasingly subject to international regulation due to their significant danger¹. We offer ultra-high-affinity rabbit recombinant monoclonal antibodies against nitazenes, available either as ready-to-use recombinant proteins (including BSA conjugate) or through licensing.



Antibody specification

Target
Nitazene

Immunogen
VLP-Nitazene

Target type
Small molecule

Clonality
Monoclonal

Isotype
IgG-Kappa 1

Class
Recombinant

Host
Rabbit

Conjugation
Upon request

Expression system
Mammalian

Purification
Protein A

Concentration
1 mg/ml

Storage buffer
PBS

Storage
Short term: +4°C
Long term: -80°C

Field
Drug of abuse

Applications

- Lateral flow assay
- CLIA
- ELISA

Conjugate specification

Conjugate
BSA-Nitazene

Concentration
1 mg/ml

Storage buffer
PBS

Storage
-20°C or below

Our antibodies can detect all nitazenes and desnitazenes reported to date by authorities (DEA and Europol), as well as their known metabolites:

#	Nitazene derivative	#	Nitazene derivative
1	Etonitazene	11	N-pyrrolidino ethylene protonitazene
2	Metonitazene	12	5-cyano protodesnitazene
3	Flunitazene	13	5-cyano isotodesnitazene
4	Methylenedioxyinitazene	14	Metometazene
5	Isotonitazene	15	Etometazene
6	Protonitazene	16	Isotometazene
7	Fluetonitazene	17	Etodesnitazene
8	N-desethyl etonitazene	18	Clodesnitazene
9	N-pyrrolidino fluetonitazene	19	Desethyletodesnitazene
10	N-pyrrolidino ethylene isotonitazene		

Literature

1. Pereira, Joana RP, Alexandre Quintas, and Nuno R. Neng. "Nitazenes: The Emergence of a Potent Synthetic Opioid Threat." *Molecules* 30.19 (2025): 3890.

Contact us



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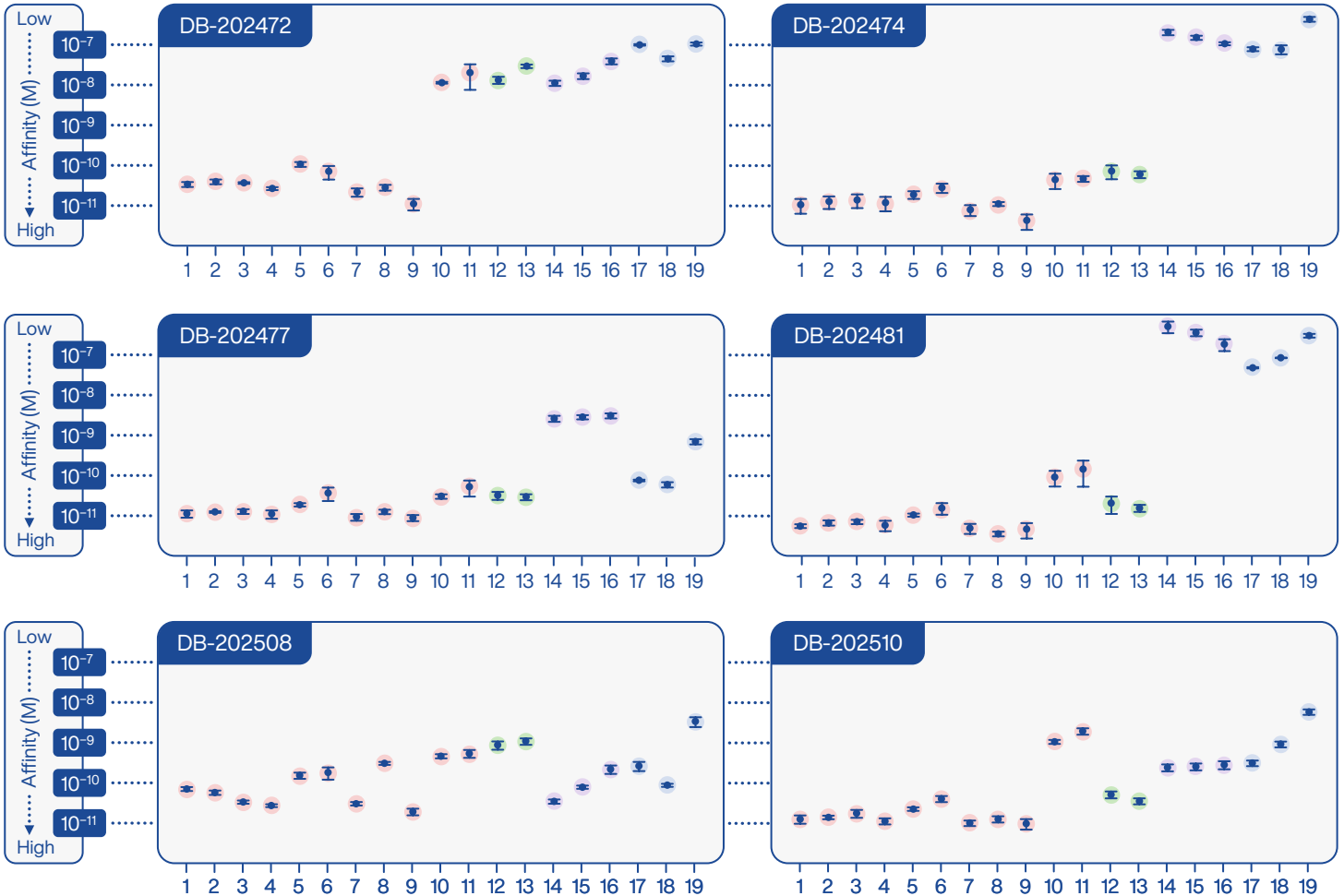


www.dianabiotech.com

The antibodies were developed in collaboration with the Forensic Laboratory of Biologically Active Substances (BAFA) at the University of Chemistry and Technology, Prague. <https://bafa.vscht.cz/>

Anti-Nitazenes rabbit recombinant monoclonal antibody

Affinities to selected nitazene derivatives



Targets

