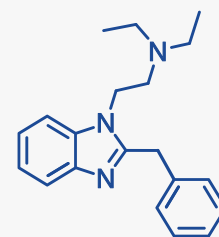


Anti-Desnitazenes rabbit recombinant monoclonal antibody



Desnitazenes are synthetic opioids originally synthesized in the 1950s during early explorations of non-morphinan analgesics. They belong to the broader nitazene class but differ in the absence of a 5-nitro group. This reduces their potency compared to nitro-substituted nitazenes. However, they still act as strong μ -opioid receptor agonists with higher potency than morphine, which creates a substantial risk of respiratory depression even at low doses. Desnitazenes have appeared since 2021 as designer drugs in powders or mixed with other opioids, and several countries have begun placing them under strict legal control^{1,2}. We offer ultra-high-affinity rabbit recombinant monoclonal antibodies against desnitazenes, available either as ready-to-use recombinant proteins (including BSA conjugate) or through licensing.



Antibody specification

Target Desnitazene	Isotype IgG-Kappa 1	Expression system Mammalian	Storage Short term: +4°C Long term: -80°C
Immunogen VLP-Desnitazene	Class Recombinant	Purification Protein A	Field Drug of abuse
Target type Small molecule	Host Rabbit	Concentration 1 mg/ml	Applications <ul style="list-style-type: none">● Lateral flow assay● CLIA● ELISA
Clonality Monoclonal	Conjugation Upon request	Storage buffer PBS	

Conjugate specification

Conjugate BSA-Desnitazene
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	Methylenedioxy nitazene	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. Schumann J. L. et al. Intoxications in an Australian emergency department involving 'nitazene' benzylbenzimidazole synthetic opioids (etodesnitazene, butonitazene and protonitazene)." *Journal of analytical toxicology*. 47.1 (2023): e6-e9.
2. Taoussi O. et al. "Human metabolism of four synthetic benzimidazole opioids: isotonitazene, metonitazene, etodesnitazene, and metodesnitazene." *Archives of Toxicology* 98.7 (2024): 2101-2116.

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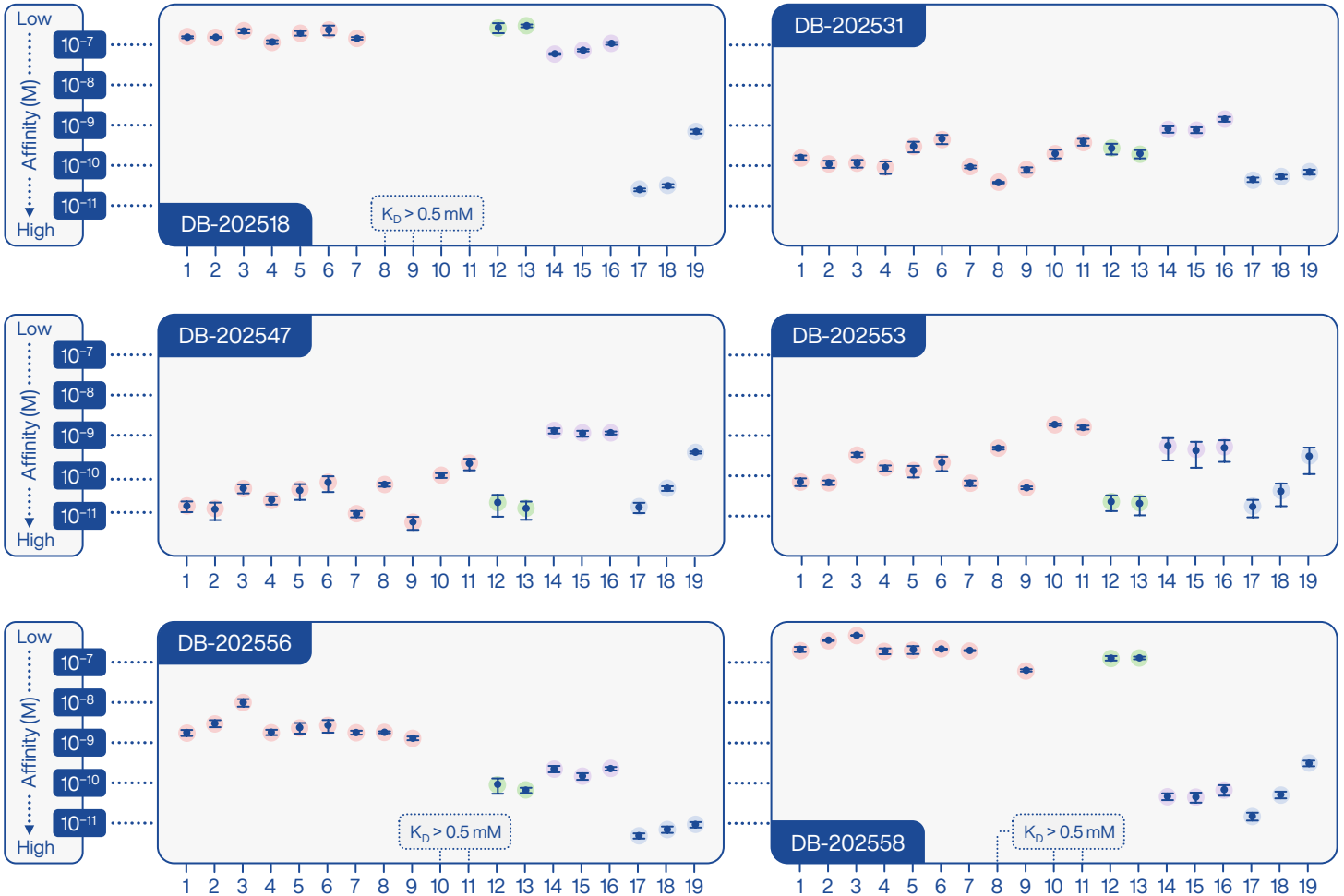


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The antibodies were developed in collaboration with the Forensic Laboratory of Biologically Active Substances (BAFA) at the University of Chemistry and Technology, Prague.
<https://bafa.vscht.cz/>

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Affinities to selected nitazene derivatives



Targets

